Maestro 880 Deluxe

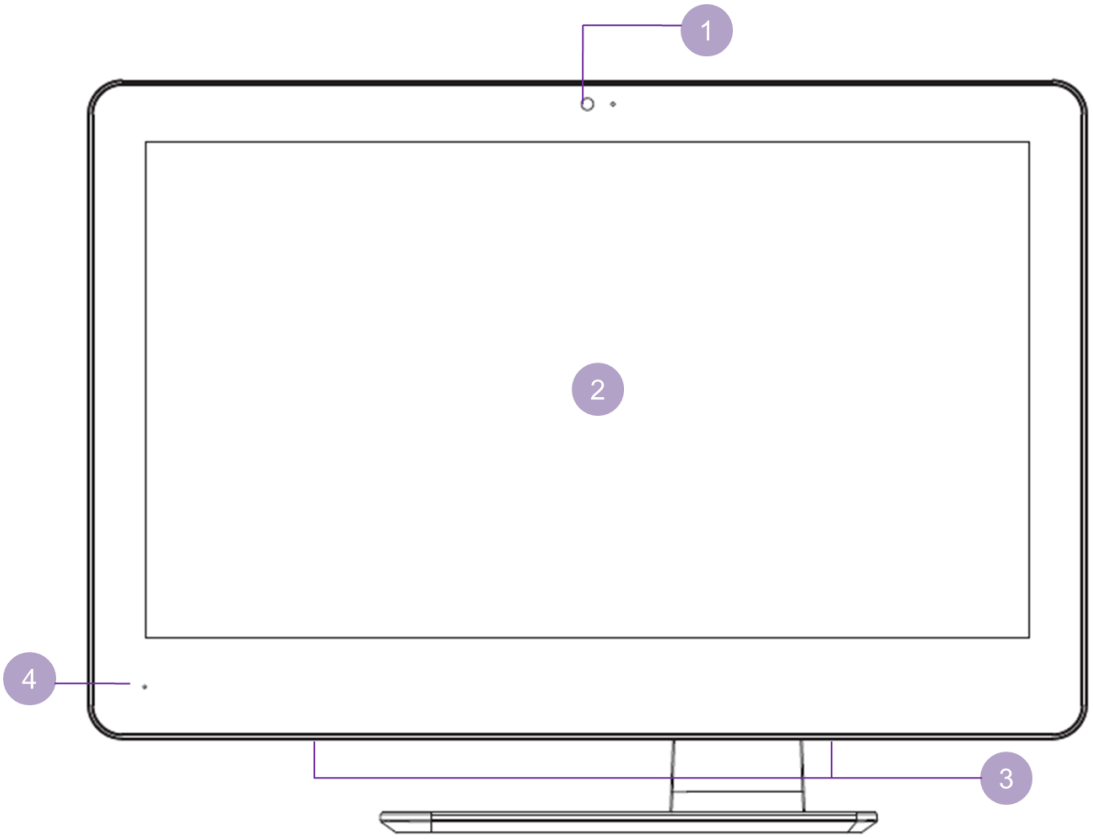
User Manual

Ver20130708

To know Maestro 880

Front View

Please refer below picture showing and take note the real front view and function may differ depend on what the model you purchased.



1

Webcam

The Built-in webcam is 1.0M HD pixel with digital micro phone to allow your video with chats online.

2

LCD Display (Touch function enabled with optional item)

This 23.6 inch LCD panel is LED type with high brightness and contrast appearance. The optimal resolution is 1920 x 1080, feature edge-to-edge touch function that enable ten-fingers-touch to enjoy your digital finger life.

3

Speakers

High definition sound quality brings you to enjoy great music world.

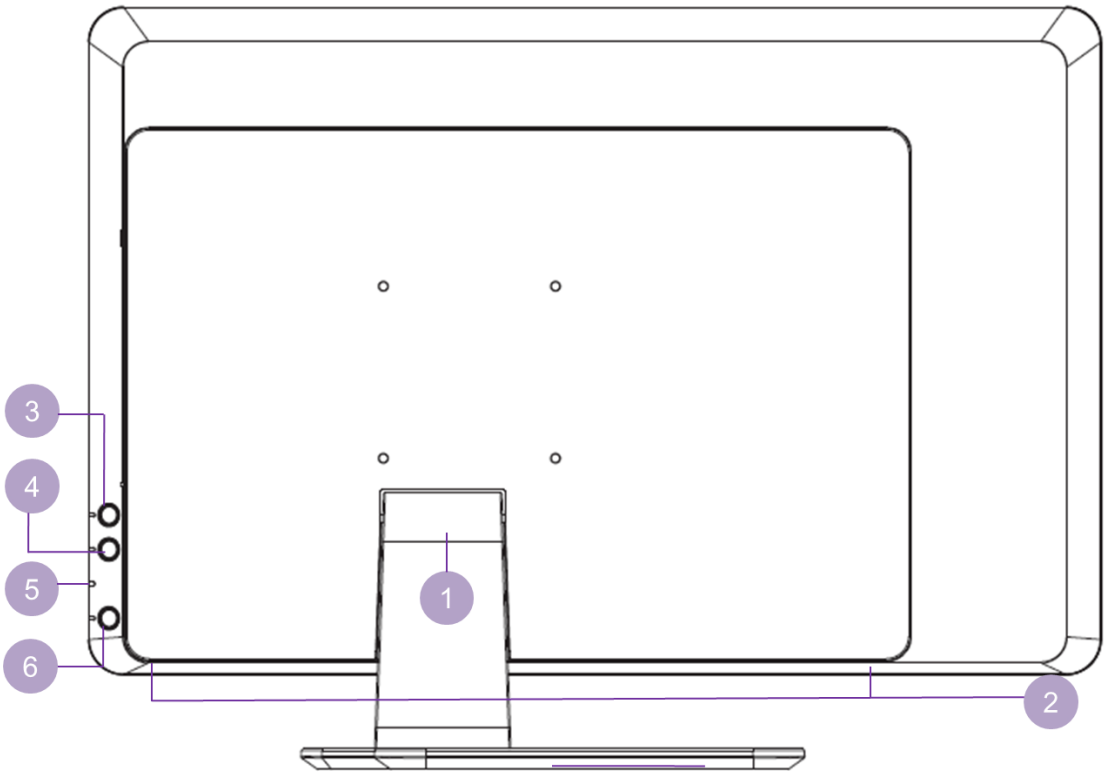
4

Ambient light sensor

This sensor could sense the user environment brightness to auto tune panel brightness.

Rear View

Please refer below picture showing and take note the real rear view and function may differ depend on what the model you purchased.



1 Stand

Adjustable stand help you to position the system upright.

2 Less screw design

Two screws allows you open system easier.

3 ECO button

Push ECO button to save earth with green concept.
Short push this button will trigger your PC to be power saving mode.
Long push this button will trigger your PC to be away mode.

4 HD Video in button

Switch you PC to receive HD video with audio content.

5 HDD/ODD drive LED

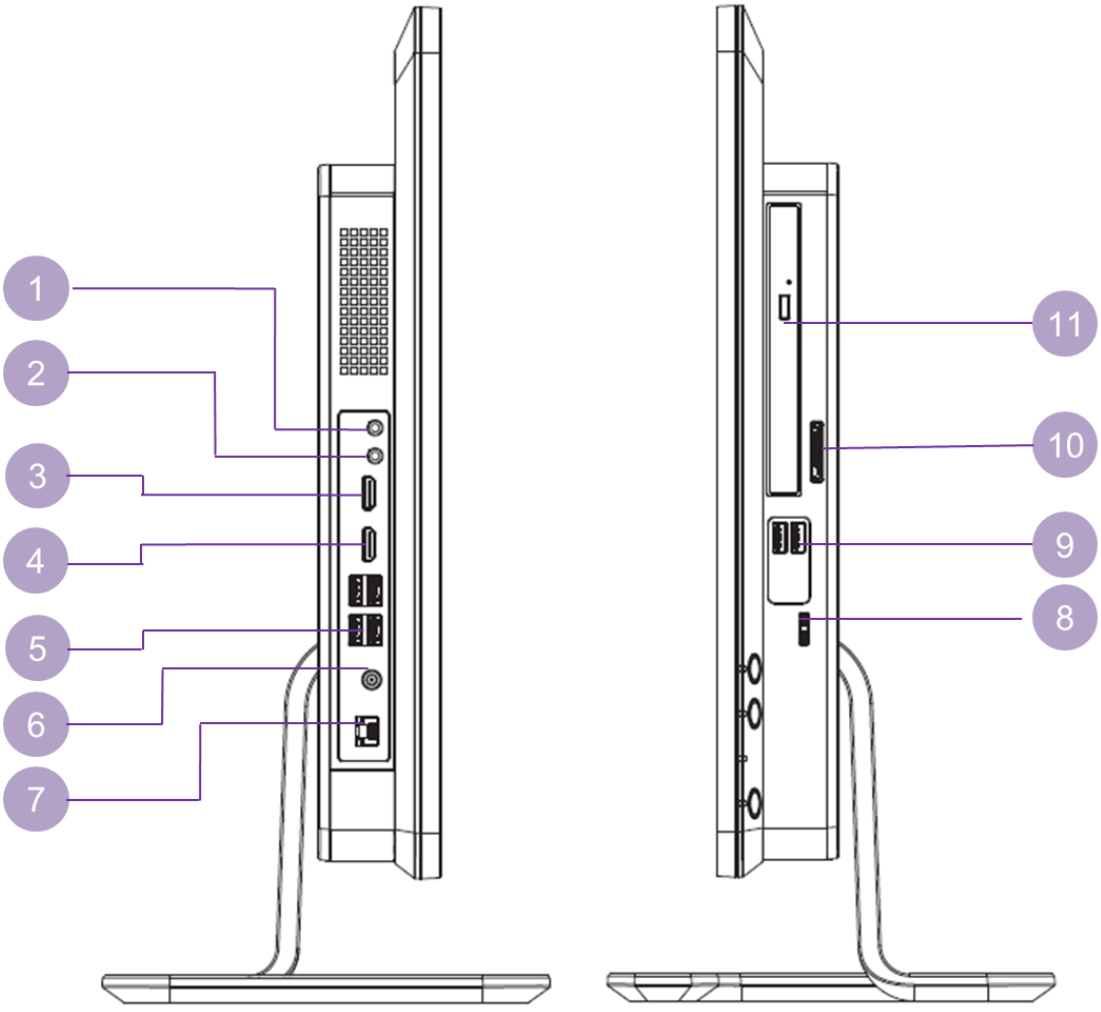
This LED indicates HDD/ODD drive activity.

6 Power ON/OFF button

Power ON/OFF switch allow you turn on/off your PC.

Side View

Please refer below picture showing and take note the real side view and function may differ depend on what the model you purchased.



1 Microphone jack

This connector allows you connect a microphone.

2 Earphone/Audio jack

This is 3.5mm jack to connect the system’s audio out signal to amplified speakers or headphones. While this jack connect to related device system will automatically disables the built-in speakers.

3 HD video input

HD (High-Definition) inlet allows you input all digital audio/video interfaces between any video/audio source.

4 HD video output

HD (High-Definition) output allows you connect to second monitor which display the digital HD audio/video content from Maestro all-in-one system.

5 USB port (Charging port enable with optional item)

These USB (Universal Series Bus) ports allow you to use Keyboard, mouse, Hard drive….etc. If you purchase the charging port function it allow user to speed charge the handy device with charging port.

6 DC inlet

The power adapter converts AC to DC for use with this DC inlet.
To prevent damage please use supplied power adapter.

7 LAN port

This RJ45 LAN port supports a standard Ethernet cable to connect network.

8 Brightness control

The Brightness control allows you to tune the panel brightness to suit your personal request.

9 USB port

These USB (Universal Series Bus) ports allow you to use Keyboard, mouse, Hard drive….etc.

10 Card reader

This AIO built in 4-in-1 card reader. SD/MMC/MS/MSPRO card type support.

11 Optical drive

This device may support you play DVD/CD disc and be recordable or re-writeable.

System Information

1. PRODUCT SPECIFICATION

1.1 INTRODUCTION

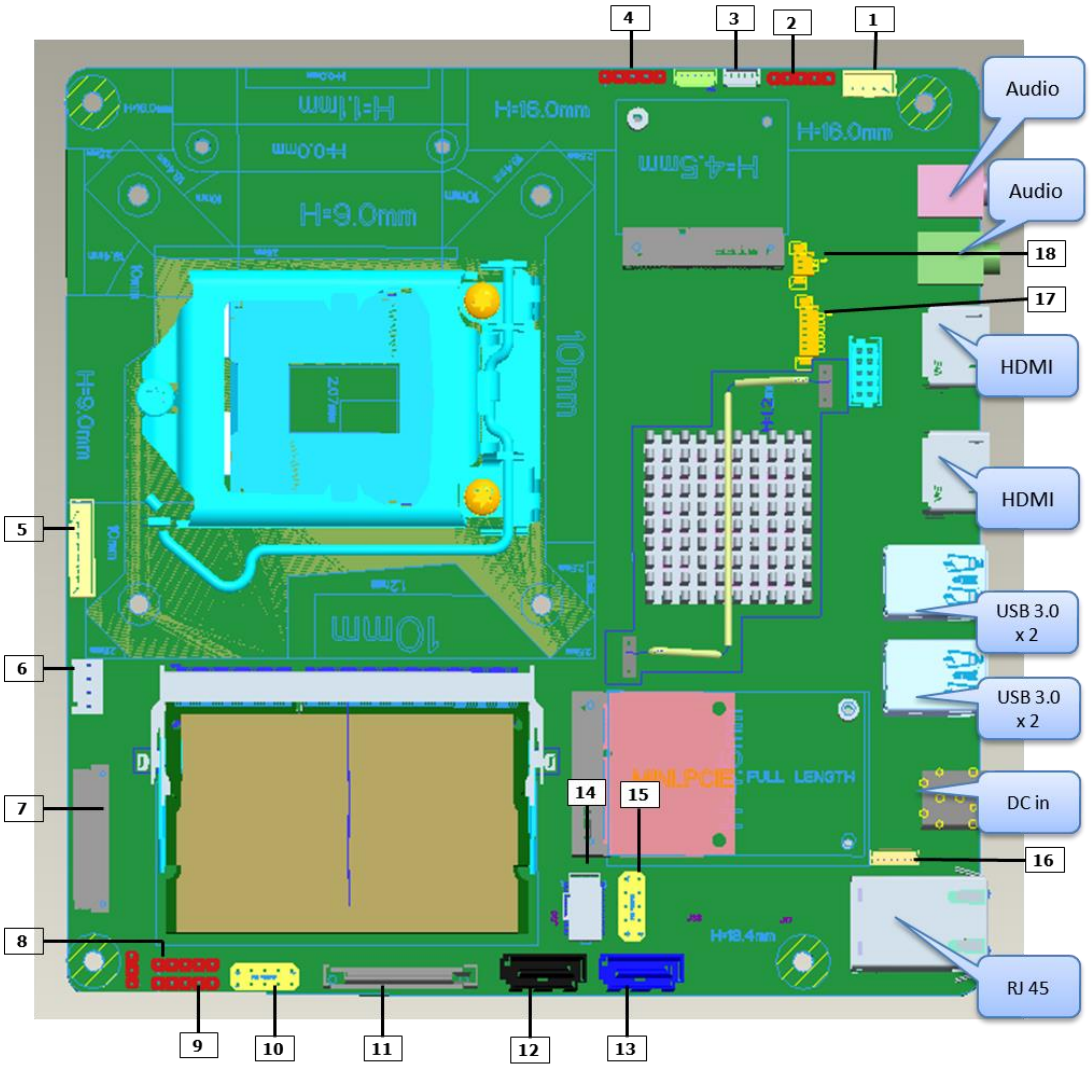
This document describes a platform based on Intel Panther Point and relative devices' Spec and function. This board supports Haswell CPU of TDP 65W, LGA1150 pins Processor from INTEL and 2 pcs DDRIII 800/1066/1333/1600 DIMMs (dual channel). The display is 23.6" LCD panel. This board provides a standard PC I/O offering – one Giga LAN, 4-in-1 card reader & USB connector.

1.2 STANDARD FEATURES

Model		**Maestro 880 Motherboard Specification**
CPU Support	CPU	Intel Haswell Processor (support 65W)
	Socket	LGA1150
Chipset		Intel Panther Point H87 Consumer
System Memory		● 2 DIMMS with Dual-Channel support (Max 16GB) ● DDR3 DIMM 800/1066/1333/1600 ● Non-ECC memory support
BIOS		AMI BIOS
Super I/O		ITE IT8519 embedded controller
Graphic		Sandy Bridge integrated Gfx with Transmitter on MB Shared main memory
Audio		ALC662-VD0-GR
LAN		10/100/1000 Base-T Ethernet (Realtek RTL8111)
Wireless LAN		802.11 b/g/n MiniCard (rev.1.2 support) BT 4.0/3.0 support

Model	Maestro 880 Motherboard Specification
TV	PCIe x1 I/F TV Board
Card Reader	Support SD / MS / MS PRO / MMC
USB3.0	By chip
LCD	23.6” FHD (1920x1080)
External I/O	1. LAN RJ45 2. DC inlet 3. HD in 4. HD out 5. 2 x USB2.0 6. 3 x USB3.0 7. 1 x USB3.0 with speed charging function 8. Mic in 9. Line out 10. 4-in-1 card reader 11. Brightness control
Storage	3.5” /2.5” Desktop Type Serial-ATA I/F
Optical Device	Tray type ODD

1.3 MB PLACEMENT



Item	Part name	Item	Part name
1	Speaker header	10	ITX standard 10 pin connector header
2	USB header for DMIC	11	Standard SATA power connector header
3	Light sensor header	12	SATA HDD header
4	USB header for transfer board of webcam	13	SATA ODD header
5	Converter BD connector header	14	System control BD header
6	Fan header	15	Side IO header, 10 pin (USB)
7	LVDS header	16	B-CAS header
8	USB header for side IO	17	Proximity BD header
9	Touch Panel header	18	Battery connector header

2. DETAIL SPECIFICATION

2.1 SWITCH BUTTON

	Function
PC power	Power On/Off, go to S3/S4(follows the Windows Setting)
HDMI mode	Switch the display of screen from PC to HDMI input
ECO/Away mode	Decrease the frequency of CPU and turn the backlight down
Brightness +	The control switch for brightness of LCD monitor (10 steps)
Brightness -	The control switch for brightness of LCD monitor (10 steps)
ODD Eject	ODD tray eject/insert (It can be pushed when ODD tray is ejection)

2.2 LED CONDITIONS

(1) Power LED status

System State	Power LED State and Color
S0	Turn On (blue)
S1	Slow Blink (blue)
S2	
S3	Slow Blink (blue)
S4	Turn Off
S5	Turn Off

(2) Other LED status

LED name	LED Color	LED State	
		Turn On Condition	Turn Off Condition
HDD/ODD access LED	Blue	Under the not Dimmer mode, and when system access to HDD or ODD.	Under the Dimmer mode, or when system doesn't access to HDD or ODD
HDMI LED	Blue	In HDMI mode	Out of HDMI mode
ECO LED	Blue	Turn on the ECO mode	Leave the ECO mode
	Amber	Turn on the Away mode	Leave the away mode

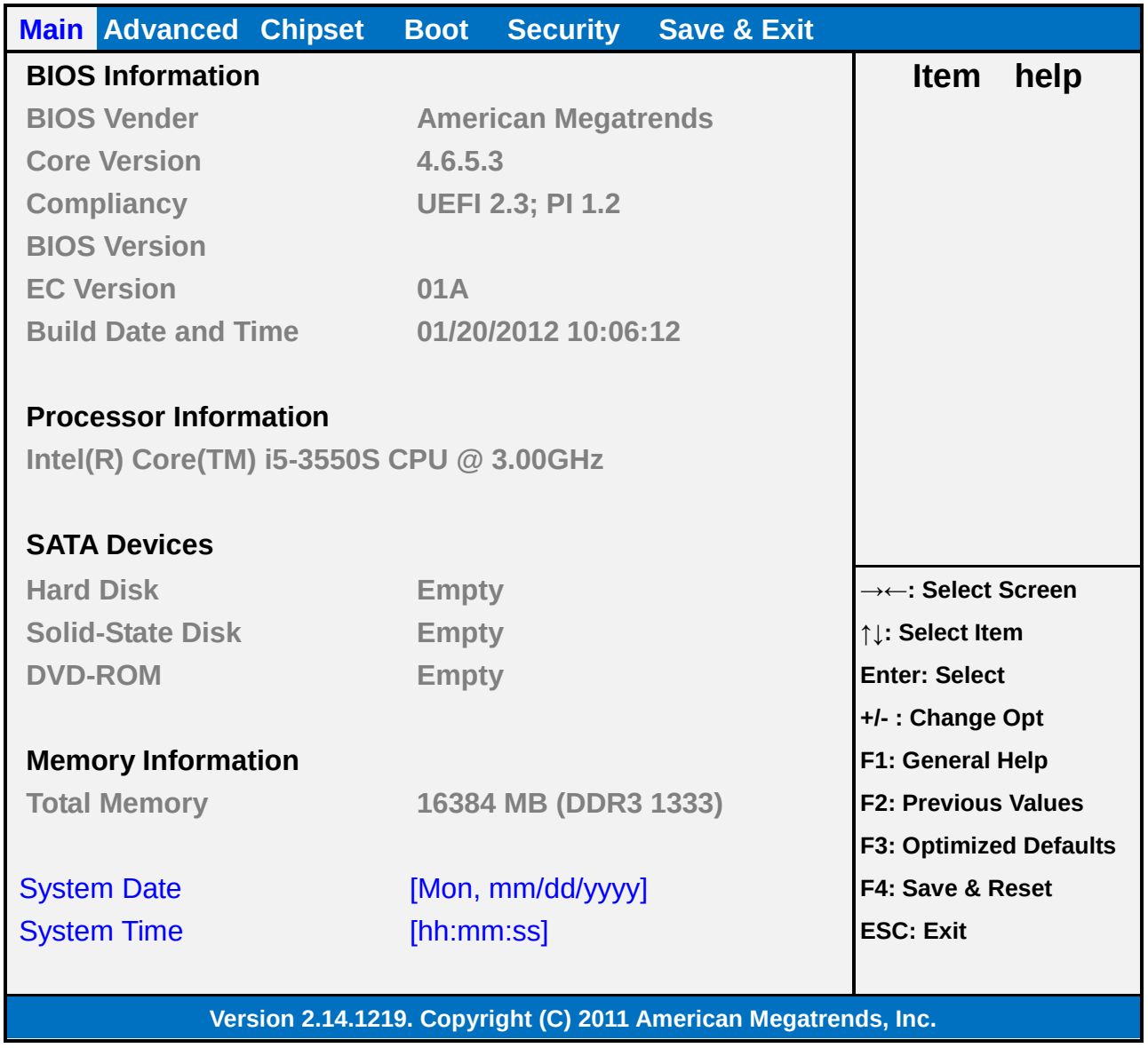
2.3 CONNECTORS / HEADERS

Locn	Physical Description	Function
SKTH_1	Socket 1155 sandy bridge	CPU socket
J1	TF-CON;HDR,3P*1,MA,2.54MM,ST,BLACK,TIN,DIP	Clear CMOS
J2	5P*2/-P9_2.54MM_ST/MA_Black	Side IO header, 10 pin (USB)
J3	HDMI_19P_MA_1.0MM_ST_BLACK	HDMI Input
J4	TF-CON;SATA,SBU,POWER,15P,MA,1.27MM,ST,2 Walls,BLACK,Gold Flash,LCP	SATA power connector
J5	40P_0.5MM_R/A_Buttom_contact	LVDS connector
J6	4P*1_1.25MM_MA_ST_BRASS/TIN_3A_LOCK_DIP	Ambient Light Sensor header
J7	1x3, 2.54mm pitch, unshrouded, red header	backlight power select
J8	8P*1/4 Wall_2.0mm_ST_White	backlight power header
J9	5P*2/-P9_BOX_MA_2.0MM_ST	BIOS Tracker Header
J10	RJ45,14P,FM,1PORT,R/A,BLACK,W/LED,GOLD 30U",GREEN/YELLOW,DIP	LAN connector
J11	15P*1_2GND	NFC Connector
J12	4P*1_FAN_2.5mm_ST_White/HTP	CPU FAN
J13	4P*1_FAN_2.5mm_ST_Red/HTP	System FAN
J14	SATA_7P_15"_Blue_W/LOCK	SATA connector
J15	SATA_7P_15"_Black_W/LOCK	SATA connector
J16 (option)	1. USB3.0*2_2SLOT_BLUE_R/A 2.USB,A,4P*2,2SLOTS,FM,BLACK,30U" Au,R/A,DIP	1. USB3.0 2 port 2.USB2.0 2 port
J17	1.0MM_MA_ST_GOLD_1A_16*2P_LOCK_SMT	Rear IO connector (Mitac)
J18	POWER,SBU,ATX,DC/600V,2 A,2P,FM,4.2mm,ST	Power Connector
J19	USB3.0*2_2SLOT_BLUE_R/A	USB3.0 2 port (charging port)
J20	6P*1_1.25MM_MA_ST_BRASS_TIN_3A_LOCK_DIP	B-CAS connector

J21/J22	Mini_PCIE_52P_H9.0MM_3NUT	Mini_PCIE
J23	DC JACK,DC,10A,11P,FM,3.2MM,R/A,50uAu,	DC Jack
J24	AUDIO JACK_6P_pink_D3.5_R/A	MIC in
J26	AUDIO JACK_6P_green_D3.5_R/A	Audio line out
J27	1P*4_Box_2.00mm_Yellow	speaker
J28	5P*1_-P5_2.54mm_ST_BLACK	Side IO Header 5 pin (USB)
J30	20P_B/B_1.0MM_MA_ST_Gold_W/LOCK	Front SW/LEDs (Mitac)
J31	5P*1_-P5_2.54mm_ST_YELLOW	DMIC header
J32	5P*1_-P5_2.54mm_ST_BLACK	Touch screen connector
J33	20P_B/B_1.0MM_MA_ST_Gold_W/LOCK	Side IO header (Mitac)
J34	5P*2/-P10	FIO header (standard)
J35	6P*1_B/B_1.25MM_ST_Gold	Proximity Sensor header
J36	5P*1_-P5_2.54mm_ST_BLACK	Webcam header
J39	5P*1_1.25MM_MA_ST_BRASS_TIN_3A_LOCK_DIP	CIR header

BIOS Information

1. Main Page



Field Name	**BIOS Vender**
Default Value	AMI Megatrends
Comment	This field is not selectable. There is no help text associated with it

Field Name	**Core Version**
Default Value	4.6.5.1
Comment	This field is not selectable. There is no help text associated with it

Field Name	**Complacency**
Default Value	UEFI 2.3; PI 1.2
Comment	This field is not selectable. There is no help text associated with it

Field Name	**BIOS Version**
Default Value	Display the version of the BIOS
Comment	This field is not selectable. There is no help text associated with it

Field Name	**EC Version**
Default Value	Display the version of the EC Firmware
Comment	This field is not selectable. There is no help text associated with it

Field Name	**Build Date and Time**
Default Value	Display build time of the BIOS
Comment	This field is not selectable. There is no help text associated with it

Field Name	**Processor Information**
Value	Display the installed CPU brand.
Comment	This field is not selectable. There is no help text associated with it

Field Name	**Hard Disk**
Value	Display the installed SATA port 1 devices.
Comment	This field is not selectable. There is no help text associated with it

Field Name	**Solid-State Disk**
Value	Display the installed SSD devices.
Comment	This field is not selectable. There is no help text associated with it

Field Name	**DVD-ROM**
Value	Display the installed SATA port 2 devices.
Comment	This field is not selectable. There is no help text associated with it

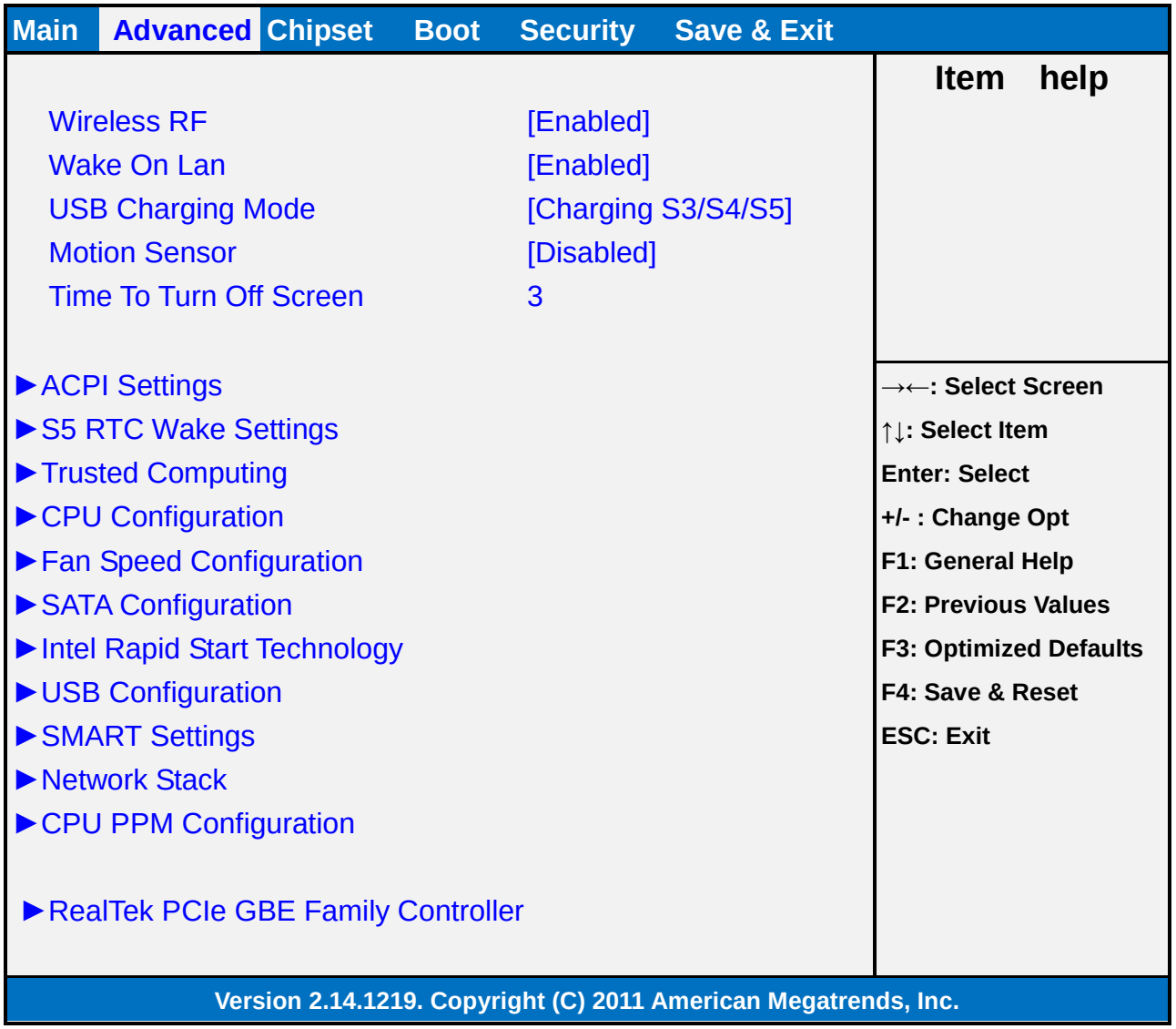
Field Name	**Total Memory**
Value	Display the installed memory size.

Comment	This field is not selectable. There is no help text associated with it

Field Name	**System Date**
Default Value	[xxx, mm dd yyyy]
Possible Value	[xxx, xx:xx:xxxx]
Help	Changes the day, month, year and week.

Field Name	**System Time**
Default Value	[hh :mm :ss]
Possible Value	[xx :xx :xx]
Help	Changes the internal clock

2. Advanced Page



Field Name	**Wireless RF**
Default Value	[Enabled]
Possible Value	Enabled Disabled
Help	Enable or Disable Wireless RF switch.

Field Name	**Wake On Lan**
Default Value	[Enabled]
Possible Value	Enabled

	Disabled
Help	Enable or Disable Wake On Lan.

Field Name	**USB Charging Mode**
Default Value	[Charging S3/S4/S5]
Possible Value	Disabled Charging S3/S4/S5 Charging Only
Help	Select USB port charging mode.

Field Name	**Motion Sensor (M750 Only)**
Default Value	[Disabled]
Possible Value	Enabled Disabled
Help	Enable or Disable Motion Sensor.

Field Name	**Time To Turn Off Screen (Hided if Motion Sensor is Disabled)**
Default Value	[3]
Possible Value	1-255
Help	Number of seconds to wait user to depart from PC, and it will turn off screen (From 1~255).

Field Name	**ACPI Settings**
Help	System ACPI Parameters.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	**S5 RTC Wake Settings**
Help	Enable system to wake from S5 using RTC alarm
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	**Trusted Computing**
Help	Trusted Computing Settings
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	**CPU Configuration**
Help	CPU Configuration Parameters
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	**Fan Speed Configuration**
Help	Fan Control Configuration.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	**SATA Configuration**
Help	SATA Devices Options Settings.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	**Intel Rapid Start Technology**
Help	Intel(R) Rapid Start Technology.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	**USB Configuration**
Help	USB Configuration Parameters.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	**SMART Settings**
Help	System SMART Settings.
Comment	Press Enter when selected to go into the associated Sub-Menu.

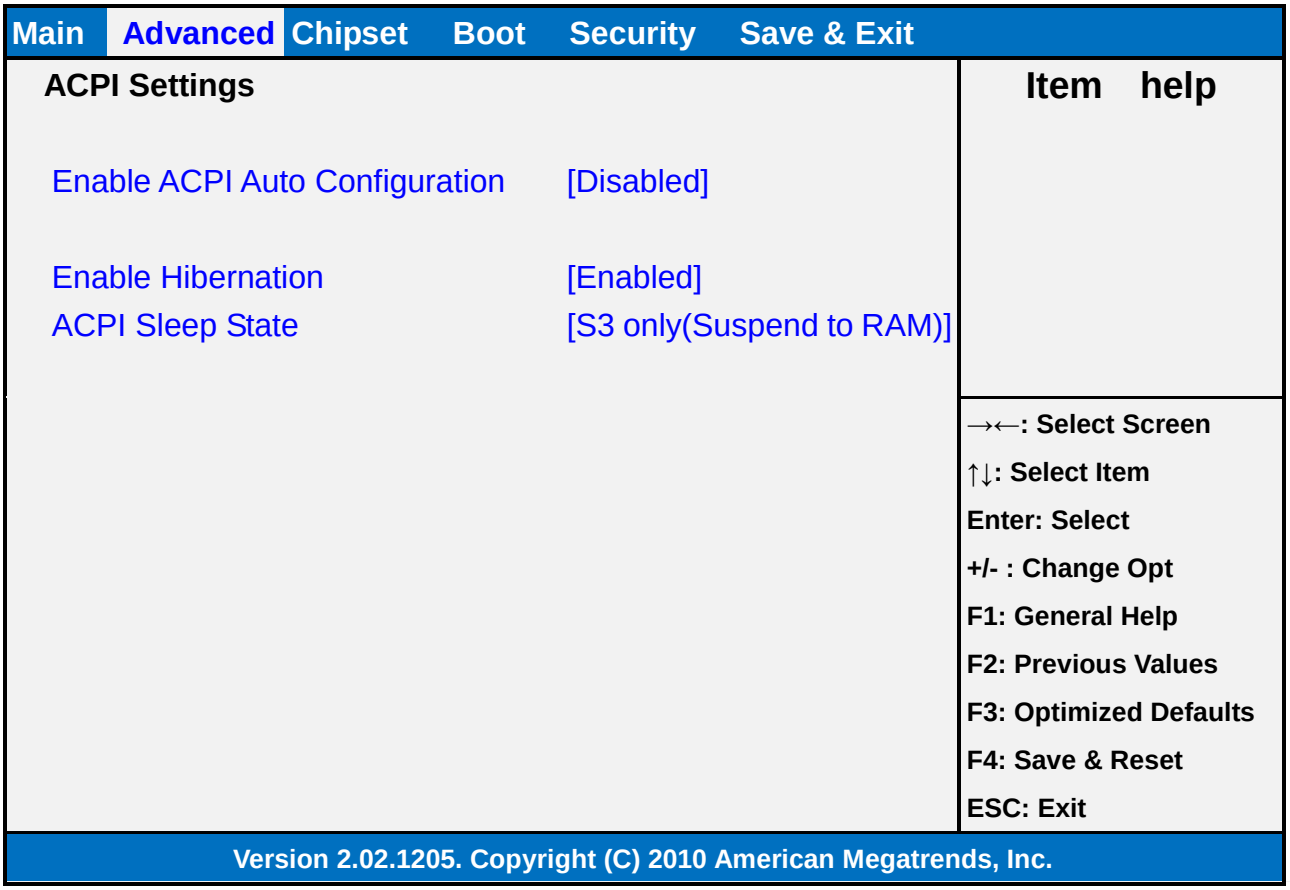
Field Name	**Network stack**
Help	Network stack Settings.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	**CPU PPM Configuration**
Help	CPU PPM Configuration Parameters.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	**RealTek PCIe GBE Family Controller (MAC:00:22:4D:7F:87:60)**

Help	Get driver information and configure Realtek Ethernet controller parameter.
Comment	Press Enter when selected to go into the associated Sub-Menu.

2.1 ACPI Settings



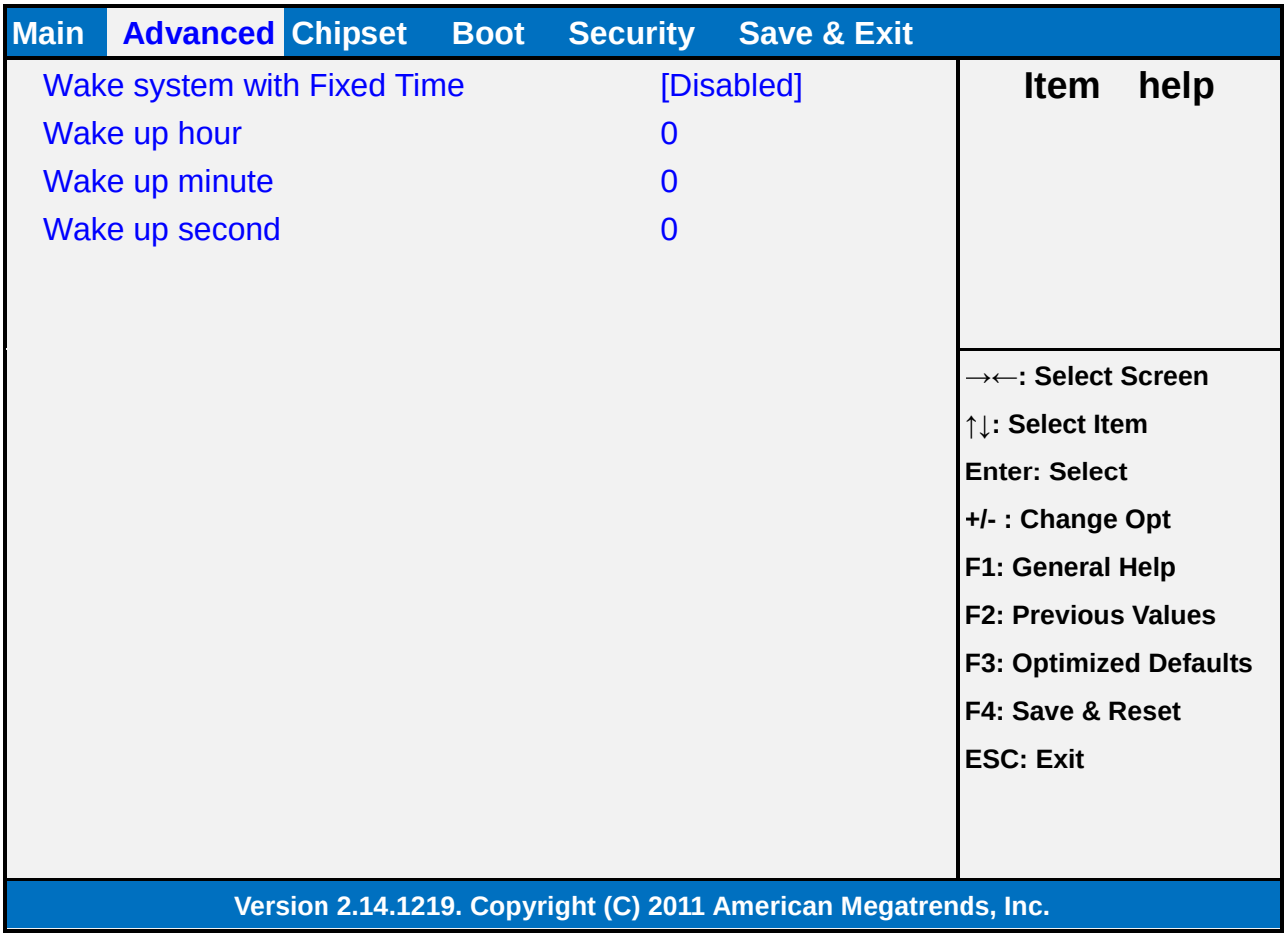
Field Name	**Enable ACPI Auto Configuration**
Default Value	[Disabled]
Possible Value	Enabled Disabled
Help	Enables or Disables BIOS ACPI Auto Configuration.

Field Name	**Enable Hibernation**
Default Value	[Enabled]
Possible Value	Enabled Disabled
Help	Enables or Disables System ability to Hibernate (OS/S4 Sleep State). This option may be not effective with some OS.

Field Name	**ACPI Sleep State**
Default Value	[S3 (Suspend to RAM)]

Possible Value	Suspend Disabled S1 only(CPU Stop Clock) S3 only(Suspend to RAM)
Help	Select ACPI sleep state the system will enter when the SUSPEND button is pressed.

2.2 S5 RTC Wake Settings



Field Name	**Wake system with Fixed Time**
Default Value	[Disabled]
Possible Value	Enabled Disabled
Help	Enable or Disable System wake on alarm event. When enabled, System will wake on the hr::min::sec specified

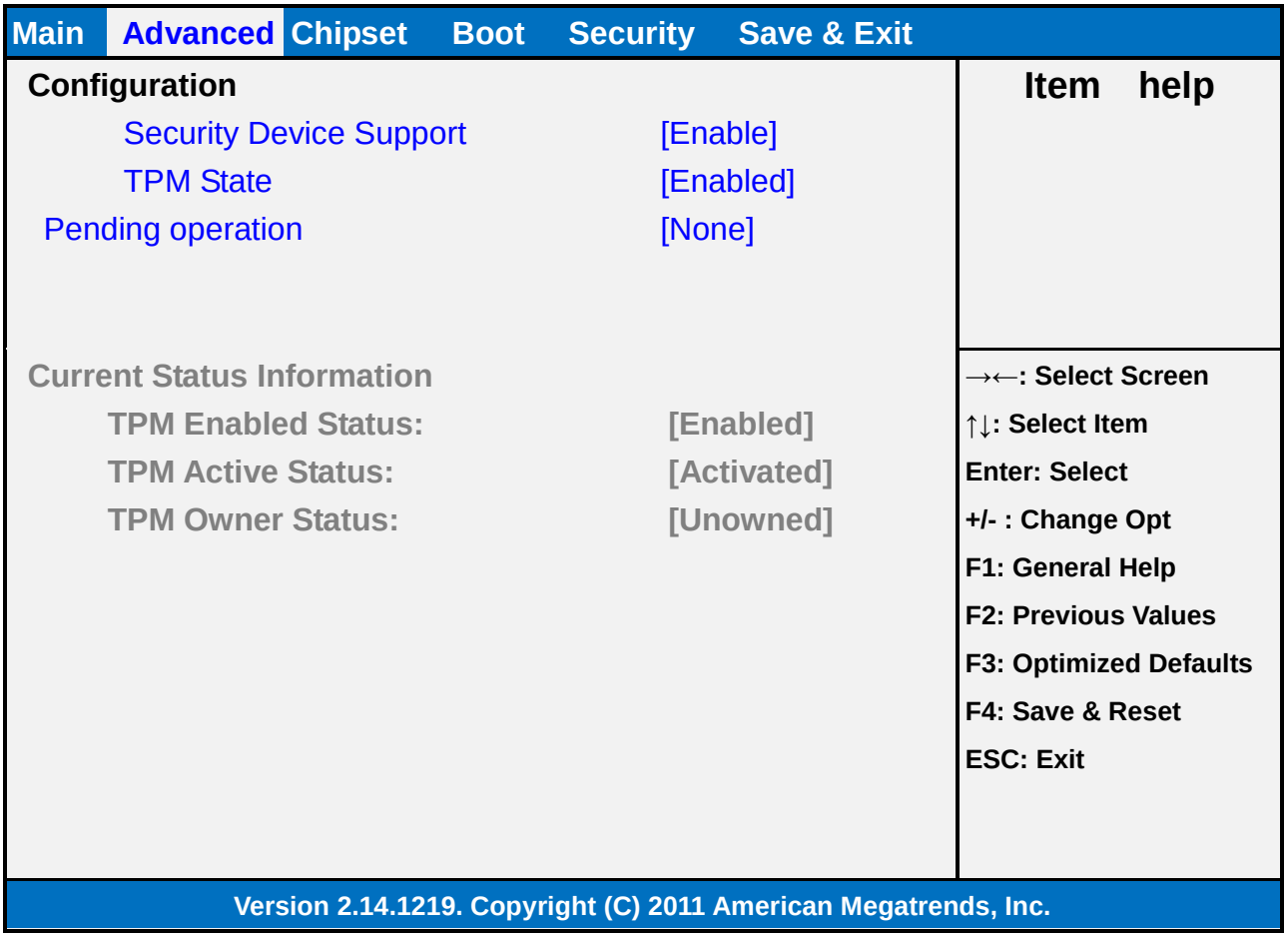
Field Name	**Wake up hour**
Default Value	0
Possible Value	0-23
Help	Select 0-23 For example enter 3 for 3am and 15 for 3pm

Field Name	**Wake up minute**
Default Value	0

Possible Value	0-59
Help	0 - 59

Field Name	**Wake up second**
Default Value	0
Possible Value	0 - 59
Help	0 - 59

2.3 Trusted Computing



Field Name	**Security Device SUPPORT**
Default Value	[Enable]
Possible Value	Enable Disable
Help	Enables or Disables BIOS support for security device. O.S. will nc show Security Device. TCG EFI protocol and INT1A interface will not be available.

Field Name	**TPM State**
Default Value	[Enabled]
Possible Value	Enabled Disabled
Help	Enable/Disable Security Device. NOTE: Your Computer will reboo during restart in order to change State of the Device.

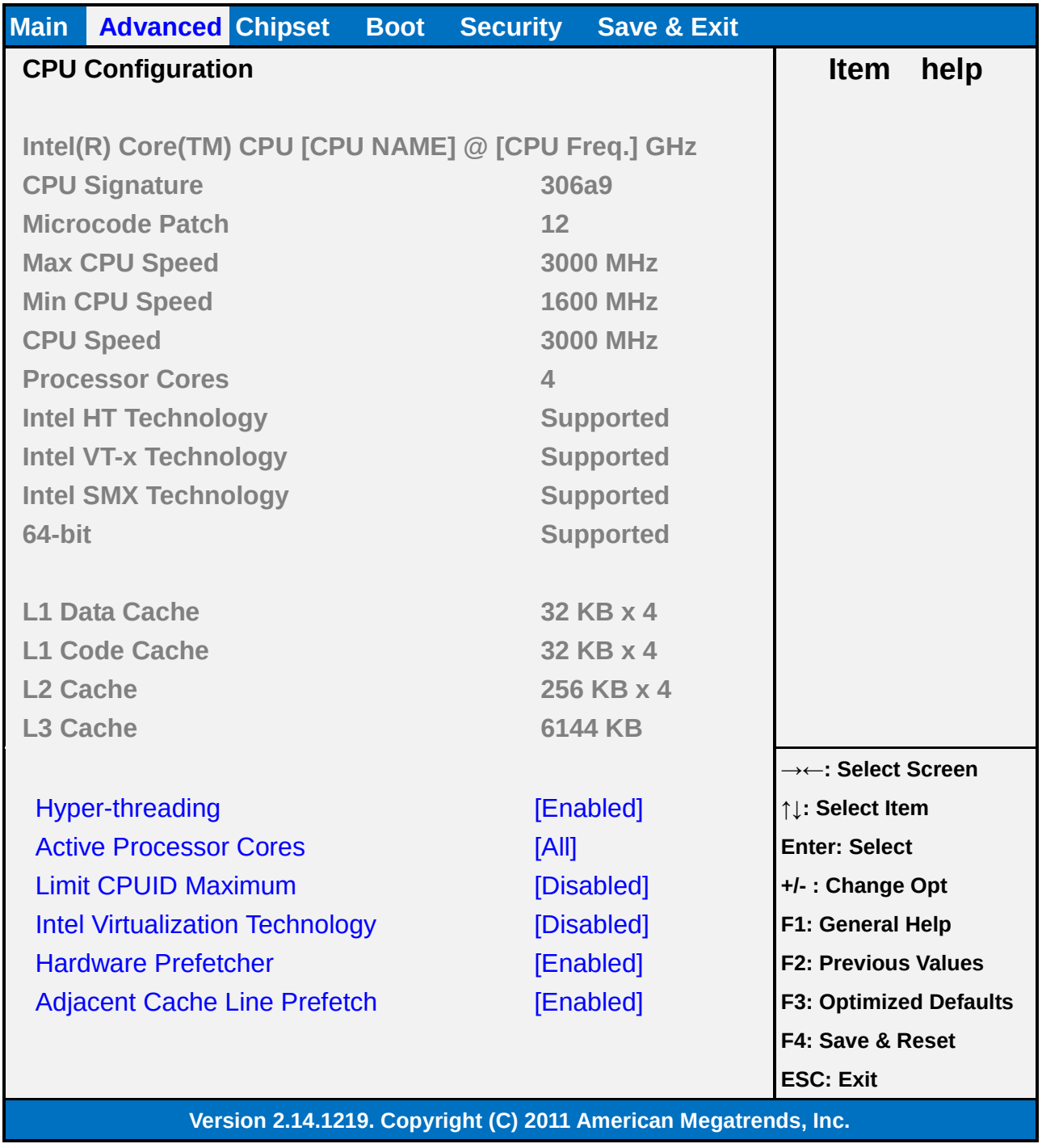
Field Name	**Pending operation**
Default Value	[None]
Possible Value	None TPM Clear
Help	Schedule an Operation for the Security Device. NOTE: Your Computer will reboot during restart in order to change State of Security Device.

Field Name	**TPM Enabled Status:**
Default Value	[Enabled]
Comment	This field is not selectable. There is no help text associated with it

Field Name	**TPM Active Status:**
Default Value	[Activated]
Comment	This field is not selectable. There is no help text associated with it

Field Name	**TPM Owner Status:**
Default Value	[Unowned]
Comment	This field is not selectable. There is no help text associated with it

2.4 CPU Configuration



Field Name	**CPU Configuration**
Default Value	[Intel CPU Brand String]
Comment	This field is not selectable. There is no help text associated with i

Field Name	**CPU Signature**
Default Value	Displays CPU Signature
Comment	This field is not selectable. There is no help text associated with it

Field Name	**Microcode Patch**
Default Value	CPU Microcode Patch Revision
Comment	This field is not selectable. There is no help text associated with it

Field Name	**Max CPU Speed**
Default Value	Displays the Max CPU Speed
Comment	This field is not selectable. There is no help text associated with it

Field Name	**Min CPU Speed**
Default Value	Displays the Min CPU Speed
Comment	This field is not selectable. There is no help text associated with it

Field Name	**CPU Speed**
Default Value	Displays the CPU Speed
Comment	This field is not selectable. There is no help text associated with it

Field Name	**Processor Cores**
Default Value	Displays number of cores.
Comment	This field is not selectable. There is no help text associated with it

Field Name	**Intel HT Technology**
Default Value	When Hyper-threading is enabled, 2 logical CPUS per core is present.
Comment	This field is not selectable. There is no help text associated with it

Field Name	**Intel VT-x Technology**
Default Value	CPU VMX hardware support for virtual machines.
Comment	This field is not selectable. There is no help text associated with it

Field Name	**Intel SMX Technology**

Default Value	Secure Mode extensions support.
Comment	This field is not selectable. There is no help text associated with it

Field Name	**64-bit**
Default Value	Displays if 64-bit supported
Comment	This field is not selectable. There is no help text associated with it

Field Name	**L1 Data Cache**
Default Value	L1 Data Cache Size
Comment	This field is not selectable. There is no help text associated with it

Field Name	**L1 Code Cache**
Default Value	L1 Code Cache Size
Comment	This field is not selectable. There is no help text associated with it

Field Name	**L2 Cache**
Default Value	L2 Cache Size
Comment	This field is not selectable. There is no help text associated with it

Field Name	**L3 Cache**
Default Value	L3 Cache Size
Comment	This field is not selectable. There is no help text associated with it

Field Name	**Hyper-threading (Hided if HT not Supported)**
Default Value	[Enabled]
Possible Value	Enabled Disabled
Help	Enabled for Windows XP and Linux (OS optimized for Hyper-Threading Technology) and Disabled for other OS (OS not optimized for Hyper-Threading Technology). When Disable only one thread per enabled core is enabled.

Field Name	**Active Processor Cores**
Default Value	[All]
Possible Value	All 1/2/3/4/5/6/7/8
Help	Number of cores to enable in each processor package.

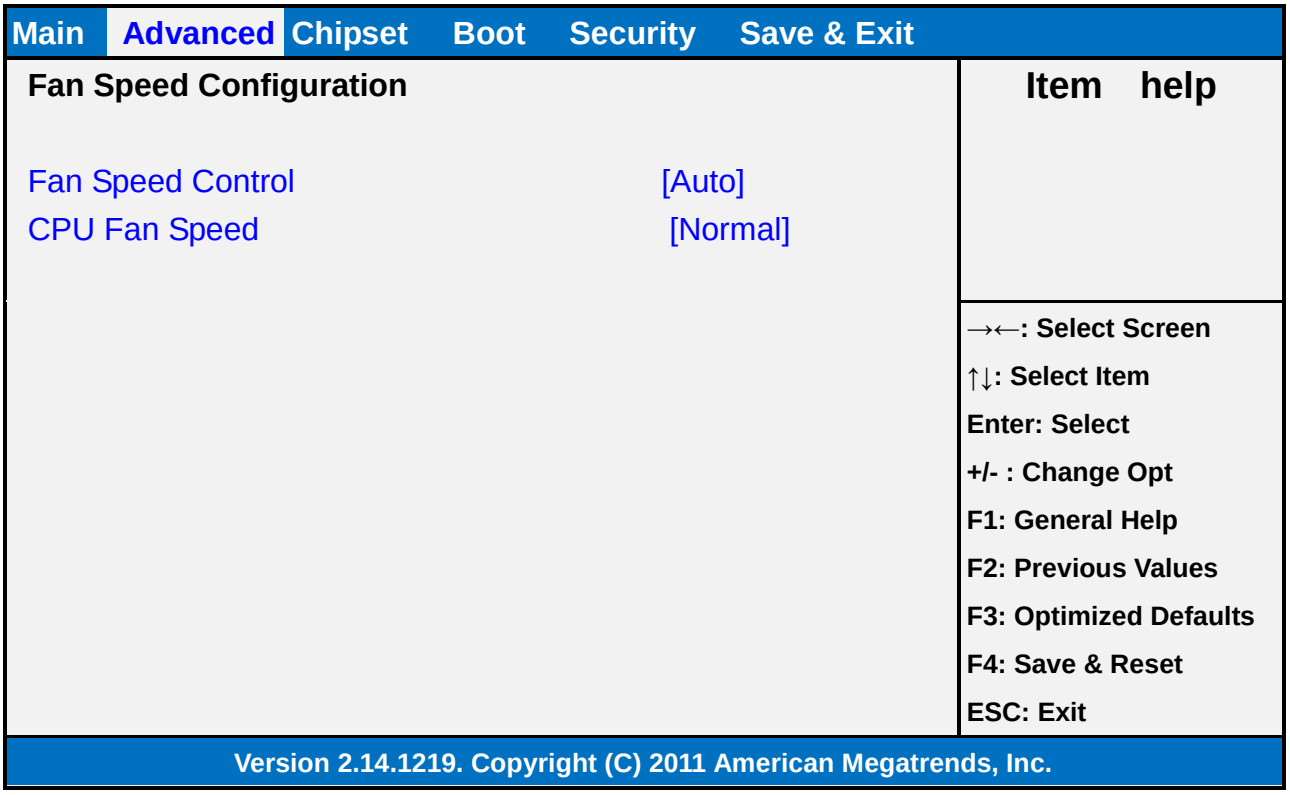
Field Name	**Limit CPUID Maximum**
Default Value	[Disabled]
Possible Value	Enabled Disabled
Help	Disabled for Windows XP

Field Name	**Intel Virtualization Technology**
Default Value	[Enabled]
Possible Value	Enabled Disabled
Help	When enabled, a VMM can utilize the additional hardware capabilities provided by Vanderpool Technology

Field Name	**Hardware Prefetcher**
Default Value	[Enabled]
Possible Value	Enabled Disabled
Help	To turn on/off the Mid Level Cache (L2) streamer prefetcher.

Field Name	**Adjacent Cache Line Prefetch**
Default Value	[Enabled]
Possible Value	Enabled Disabled
Help	To turn on/off prefetching of adjacent cache lines.

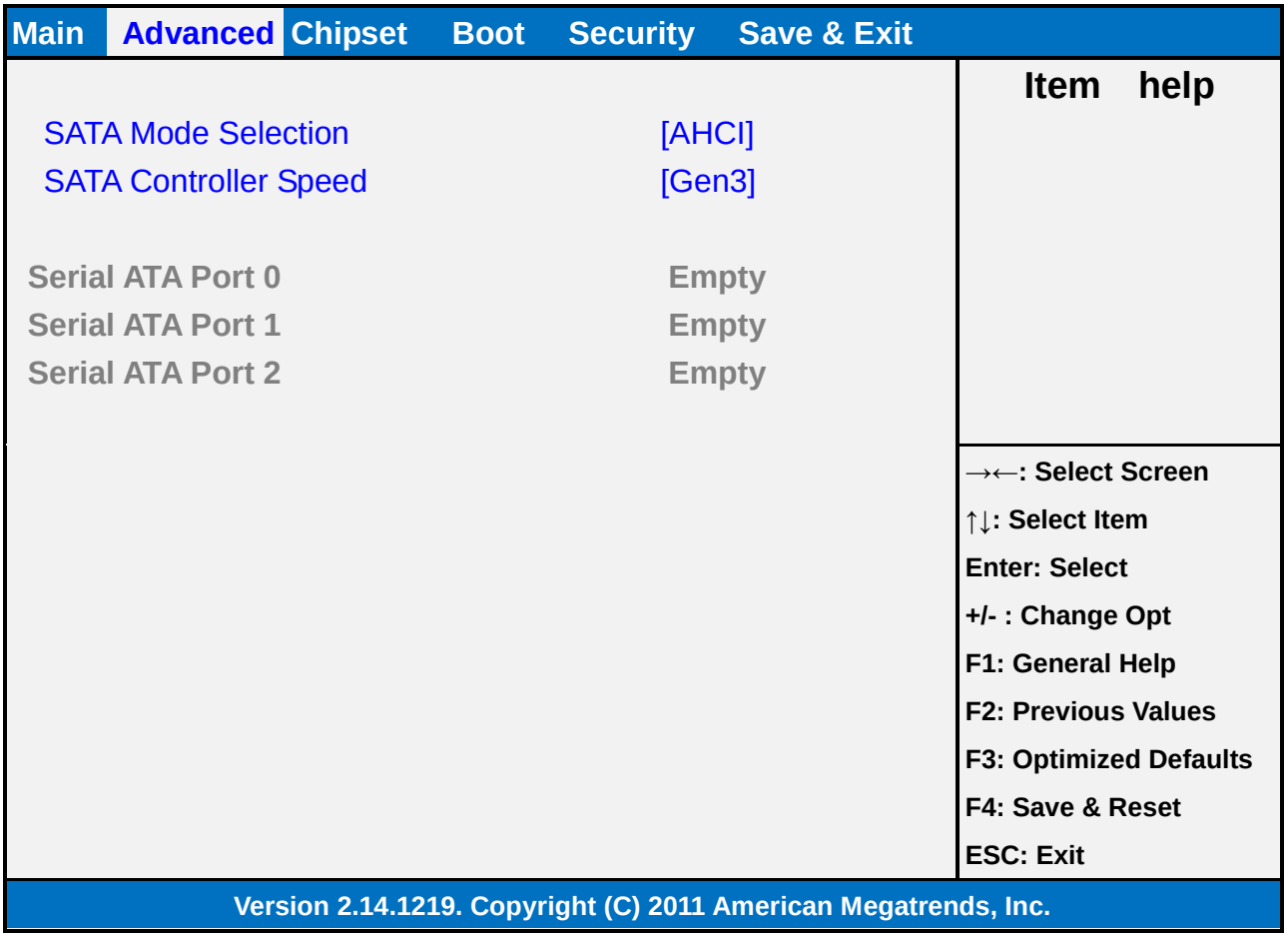
2.5 Fan Speed Configuration



Field Name	**Fan Speed Control**
Default Value	[Auto]
Possible Value	Auto / Manual
Help	Set Fan Speed mode. Attention: Select Manual Silent or Normal mode may be NOT cooling system enough.
Comment	

Field Name	**CPU Fan Speed**
Default Value	[Normal]
Possible Value	Silent / Normal / Optimize
Help	Adjust CPU Fan Speed PWM Duty.
Comment	

2.6 SATA Configuration



Field Name	**SATA Mode Selection**
Default Value	[AHCI]
Possible Value	IDE / AHCI
Help	Determines how SATA controller(s) operate.

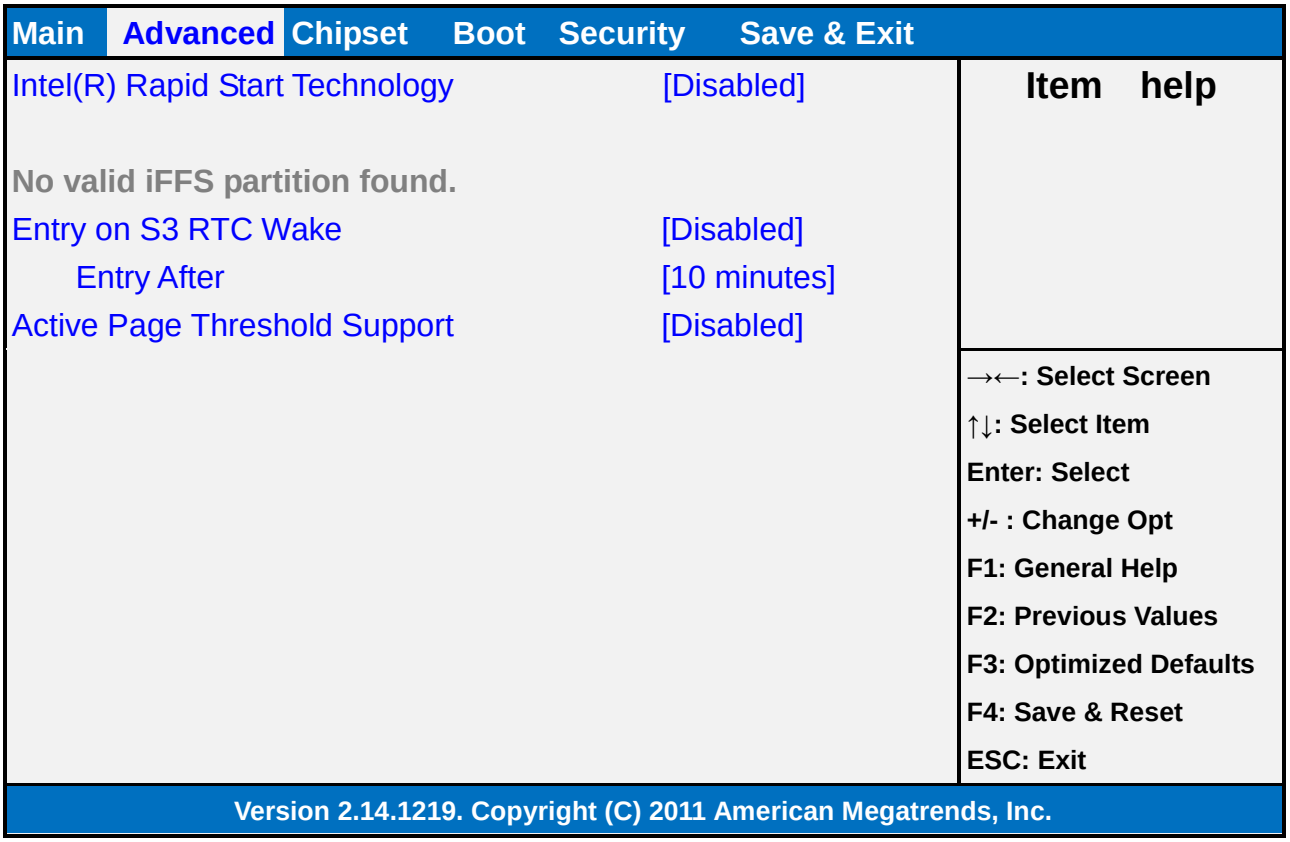
Field Name	**SATA Controller Speed**
Default Value	[Gen3]
Possible Value	Gen1 / Gen2 / Gen3
Help	Indicates the maximum speed the SATA controller can support.

Field Name	**Serial ATA Port 0**
Default Value	Empty
Possible Value	SATA Device Model Name

Field Name	**Serial ATA Port 1**
Default Value	Empty
Possible Value	SATA Device Model Name

Field Name	**Serial ATA Port 2**
Default Value	Empty
Possible Value	SATA Device Model Name

2.7 Intel® Rapid Start Technology



Field Name	**Intel(R) Rapid Start Technology**
Default Value	[Disabled]
Possible Value	Disabled Enabled
Help	Enable or disable Intel(R) Rapid Start Technology.

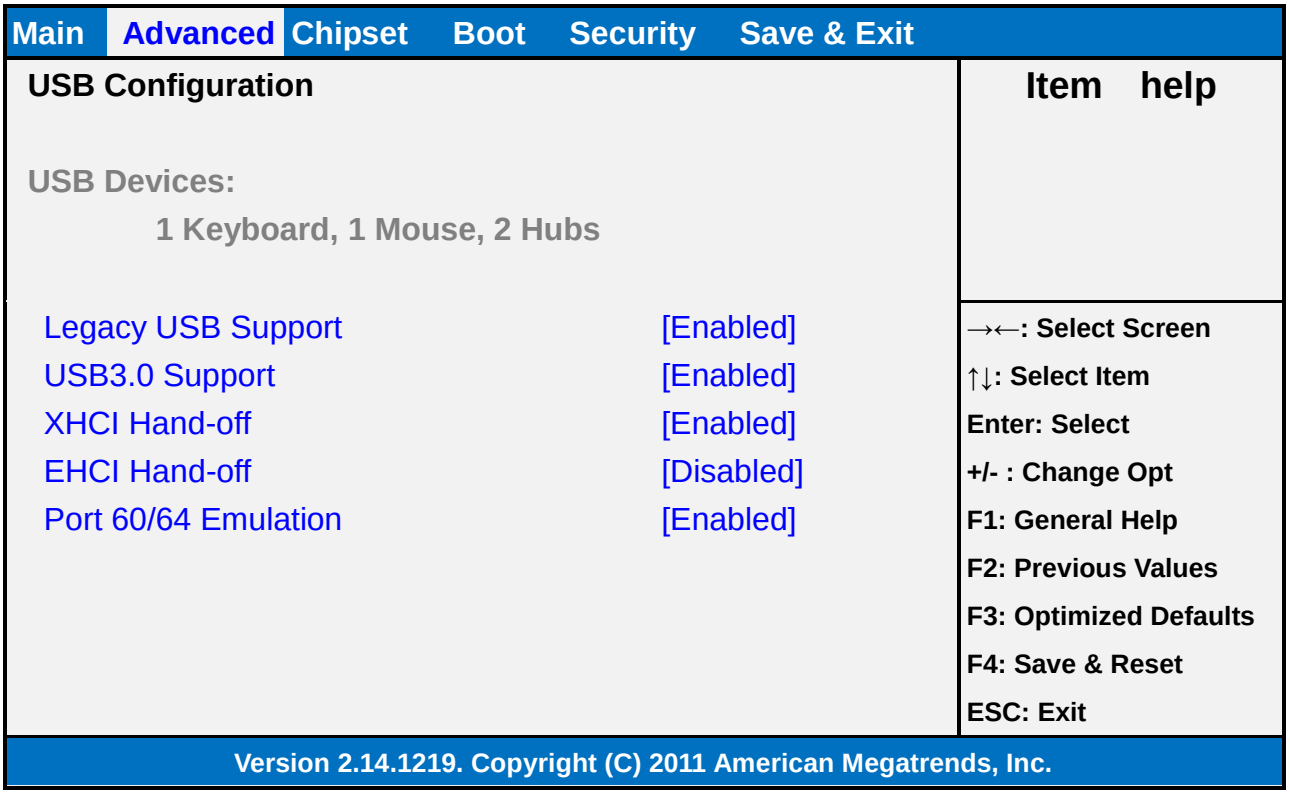
Field Name	**Entry on S3 RTC Wake**
Default Value	[Disabled]
Possible Value	Disabled Enabled
Help	iFFS invocation upon S3 RTC wake.

Field Name	**Entry After**
Default Value	[10 minutes]
Possible Value	Immediately / 1 minute / 2 minutes / 5 minutes / 10 minutes / 15 minutes / 30 minutes / 1 hour / 2 hours

Help	Enable RTC wake timer at S3 entry.

Field Name	**Active Page Threshold Support**
Default Value	[Disabled]
Possible Value	Disabled Enabled
Help	Support RST with small prtiotion.

2.8 USB Configuration



Field Name	**USB Devices:**
Default Value	Connected USB devices
Comment	This field is not selectable. There is no help text associated with it

Field Name	**Legacy USB Support**
Default Value	[Enabled]
Possible Value	Disabled Enabled Auto
Help	Enables Legacy USB support. AUTO option disables legacy support if no USB devices are connected. DISABLE option will keep USB devices available only for EFI applications.

Field Name	**USB3.0 Support**
Default Value	[Enabled]
Possible Value	Disabled Enabled

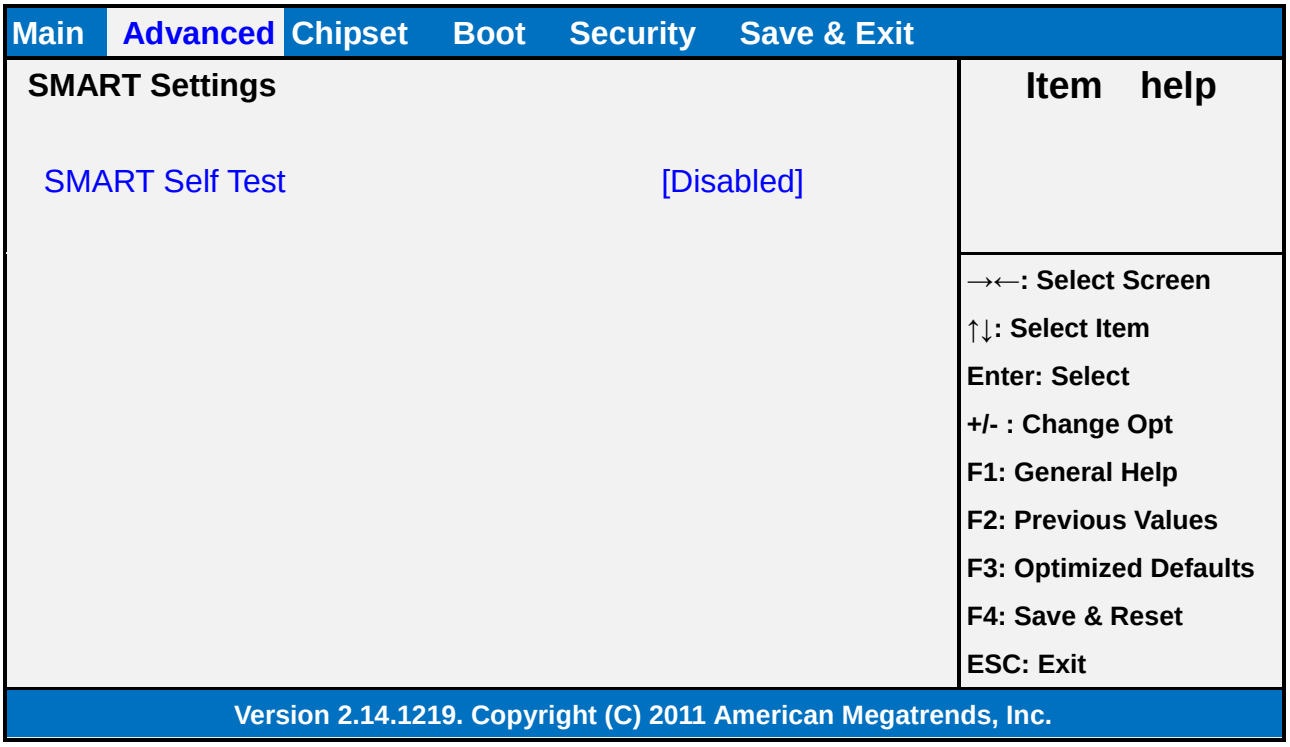
Help	Enable/Disable USB3.0 (XHCI) Controller support.

Field Name	**XHCI Hand-off**
Default Value	[Enabled]
Possible Value	Disabled Enabled
Help	This is a workaround for OSes without XHCI hand-off support. Th XHCI ownership change should be claimed by XHCI driver.

Field Name	**EHCI Hand-off**
Default Value	[Disabled]
Possible Value	Disabled Enabled
Help	This is a workaround for OSes without EHCI hand-off support. Th EHCI ownership change should be claimed by EHCI driver.

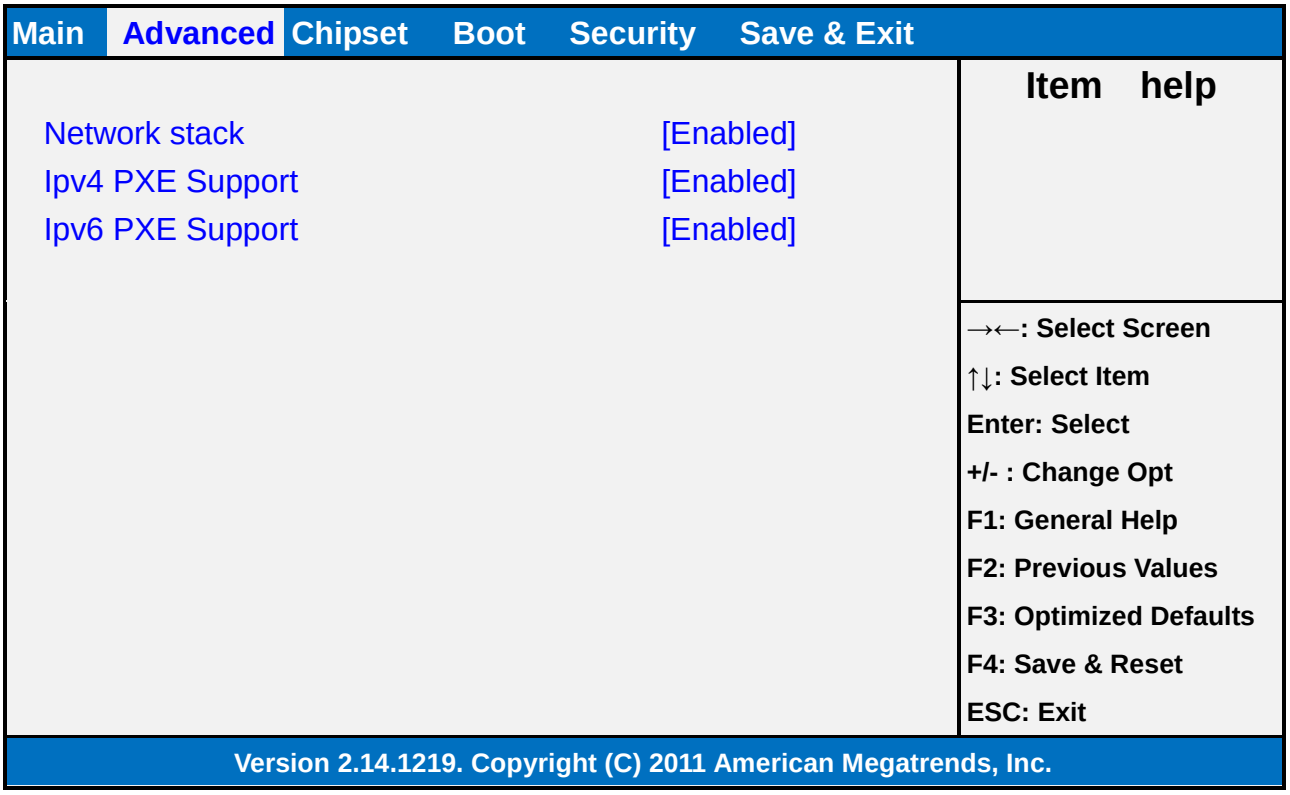
Field Name	**Port 60/64 Emulation**
Default Value	[Disabled]
Possible Value	Disabled Enabled
Help	Enables I/O port 60h/64h emulation support. This should be enabled for the complete USB keyboard legacy support for non-USB aware OSes.

2.9 SMART Settings



Field Name	**SMART Self Test**
Default Value	[Disabled]
Possible Value	Disabled Enabled
Help	Run SMART Self Test on all HDDs during POST.

2.10 Network Stack



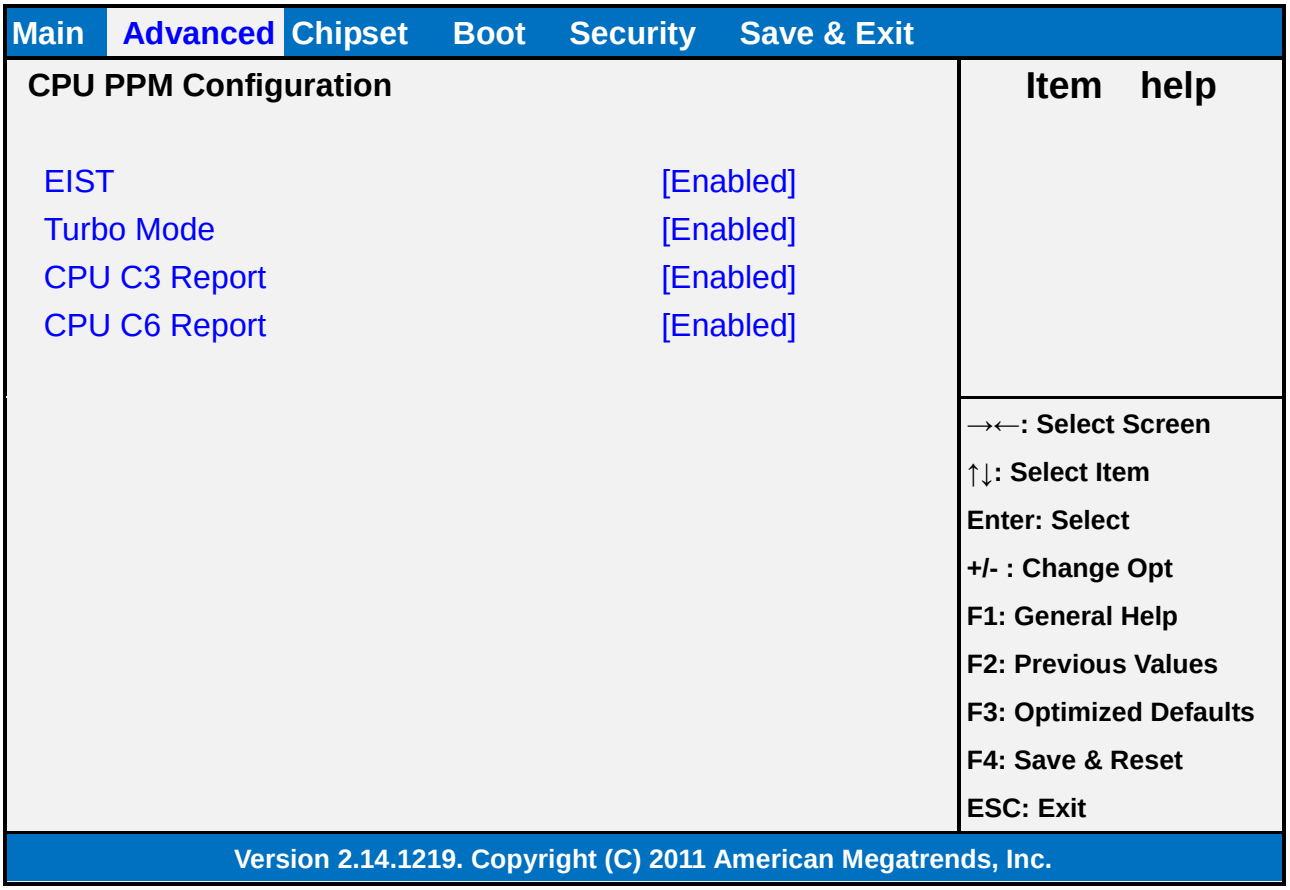
Field Name	**Network stack**
Default Value	[Enabled]
Possible Value	Disabled Enabled
Help	Enable/Disable UEFI network stack.

Field Name	**Ipv4 PXE Support**
Default Value	[Enabled]
Possible Value	Disabled Enabled
Help	Enable Ipv4 PXE Boot Support. If disabled IPV4 PXE boot option will not be created.

Field Name	**Ipv6 PXE Support**
Default Value	[Enabled]
Possible Value	Disabled Enabled

Help	Enable Ipv6 PXE Boot Support. If disabled IPV4 PXE boot option will not be created.

2.11 CPU PPM Configuration



Field Name	**EIST**
Default Value	[Enabled]
Possible Value	Disabled Enabled
Help	Enable/Disable Intel SpeedStep.

Field Name	**Turbo Mode**
Default Value	[Enabled]
Possible Value	Disabled Enabled
Help	Turbo Mode.

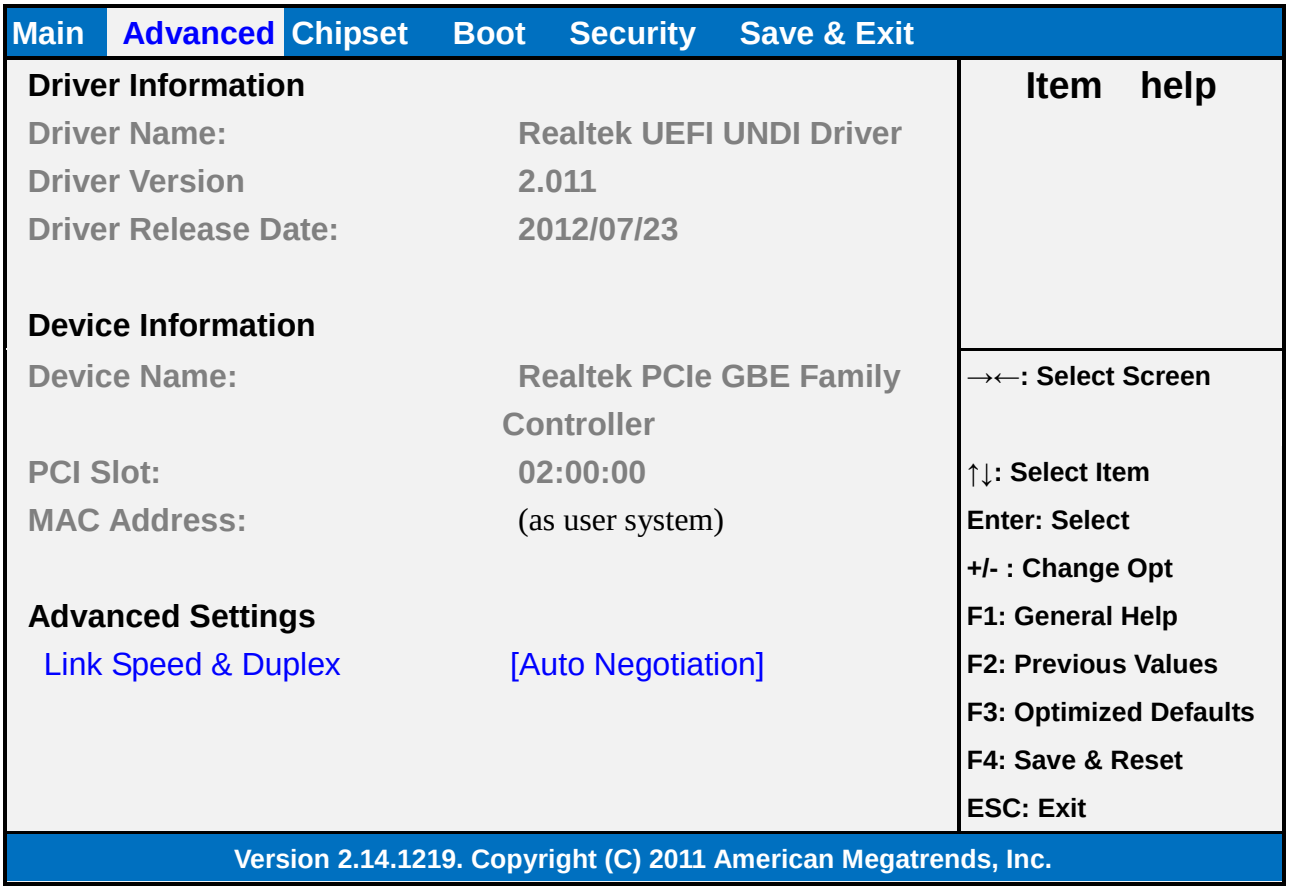
Field Name	**CPU C3 Report**
Default Value	[Enabled]
Possible Value	Disabled

	Enabled
Help	Enable/Disable CPU C3(ACPI C2) report to OS

Field Name	**CPU C6 Report**
Default Value	[Enabled]
Possible Value	Disabled Enabled
Help	Enable/Disable CPU C6(ACPI C3) report to OS

2.12 Realtek PCIe GBE Family Controller

(If Network Stack IPv4/IPv6 enabled, create by RealTek UEFI PXE Driver)



Field Name	**Driver Name:**
Default Value	Installed UEFI Driver Name
Comment	This field is not selectable. There is no help text associated with it

Field Name	**Driver Version:**
Default Value	Installed UEFI Driver Version
Comment	This field is not selectable. There is no help text associated with it

Field Name	**Driver Release Date:**
Default Value	Installed UEFI Driver Release Date
Comment	This field is not selectable. There is no help text associated with it

Field Name	**Device Name:**
Default Value	UEFI driver support device

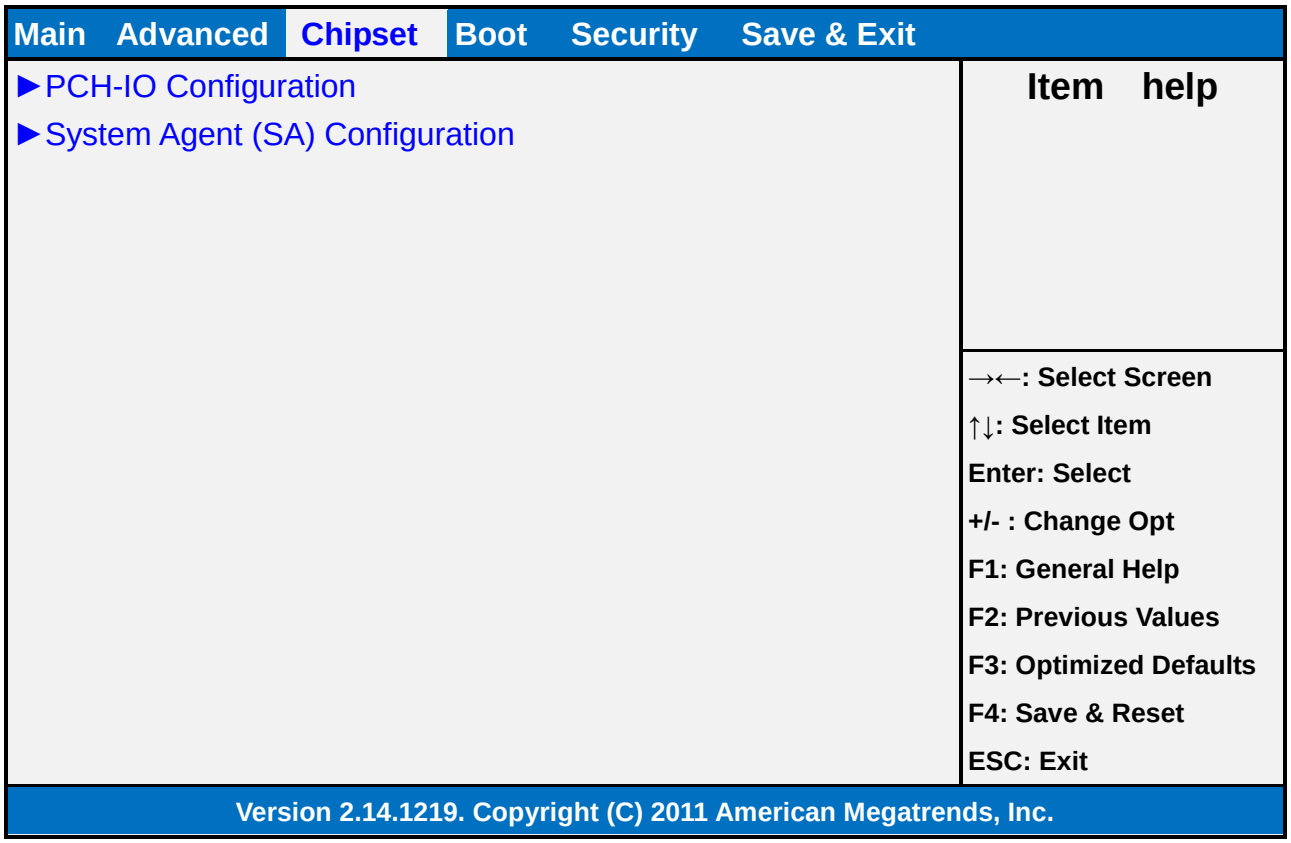
Comment	This field is not selectable. There is no help text associated with it

Field Name	**PCI Slot:**
Default Value	Device PCI Bus/Device/Number
Comment	This field is not selectable. There is no help text associated with it

Field Name	**MAC Address:**
Default Value	LAN Device Mac address
Comment	This field is not selectable. There is no help text associated with it

Field Name	**Link Speed & Duplex**
Default Value	[Auto Negotiation]
Possible Value	Auto Negotiation / 10 Mpbs HALF Duplex / 10 Mpbs Full Duplex / 100 Mpbs Half Duplex / 100 Mpbs Full Duplex 1.0 Gbps Full Duplex
Help	Change link speed and duplex for current adapter.

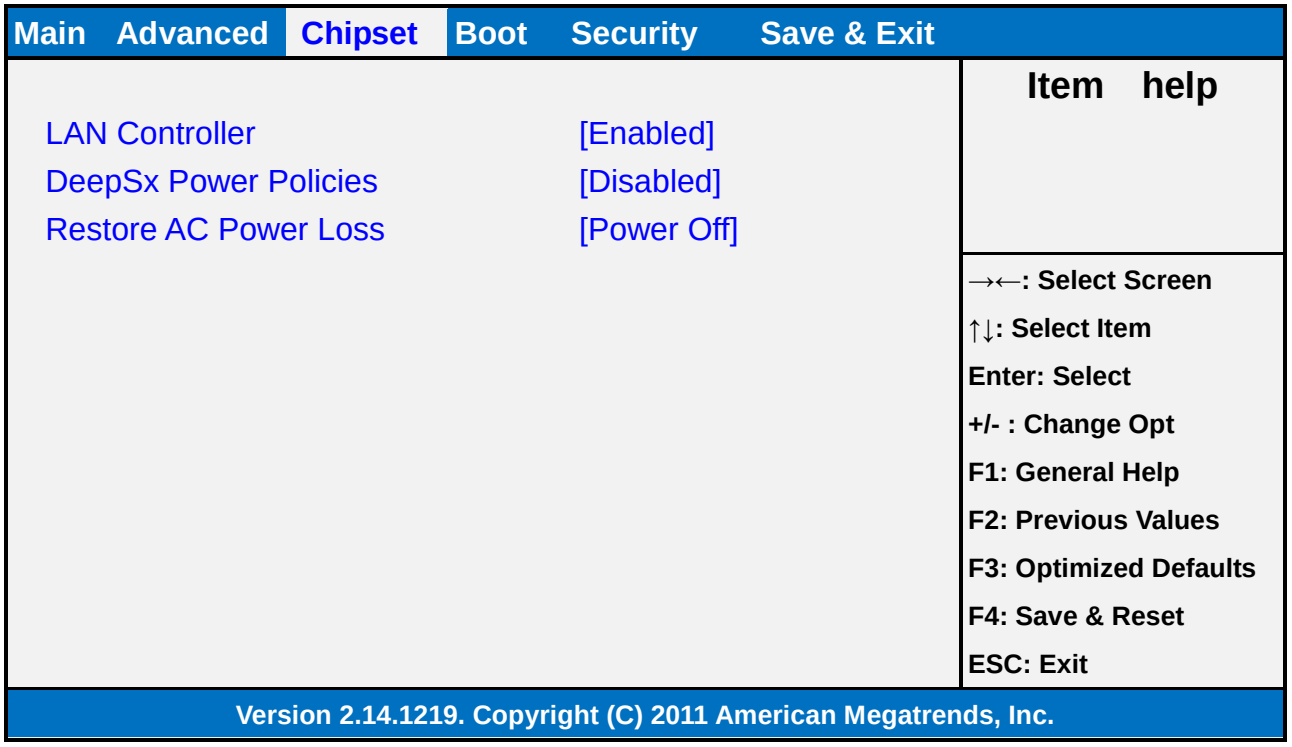
3. Chipset



Field Name	**PCH-IO Configuration**
Help	PCH Parameters
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	**System Agent (SA) Configuration**
Help	System Agent (SA) Parameters
Comment	Press Enter when selected to go into the associated Sub-Menu.

3.1 PCH-IO Configuration



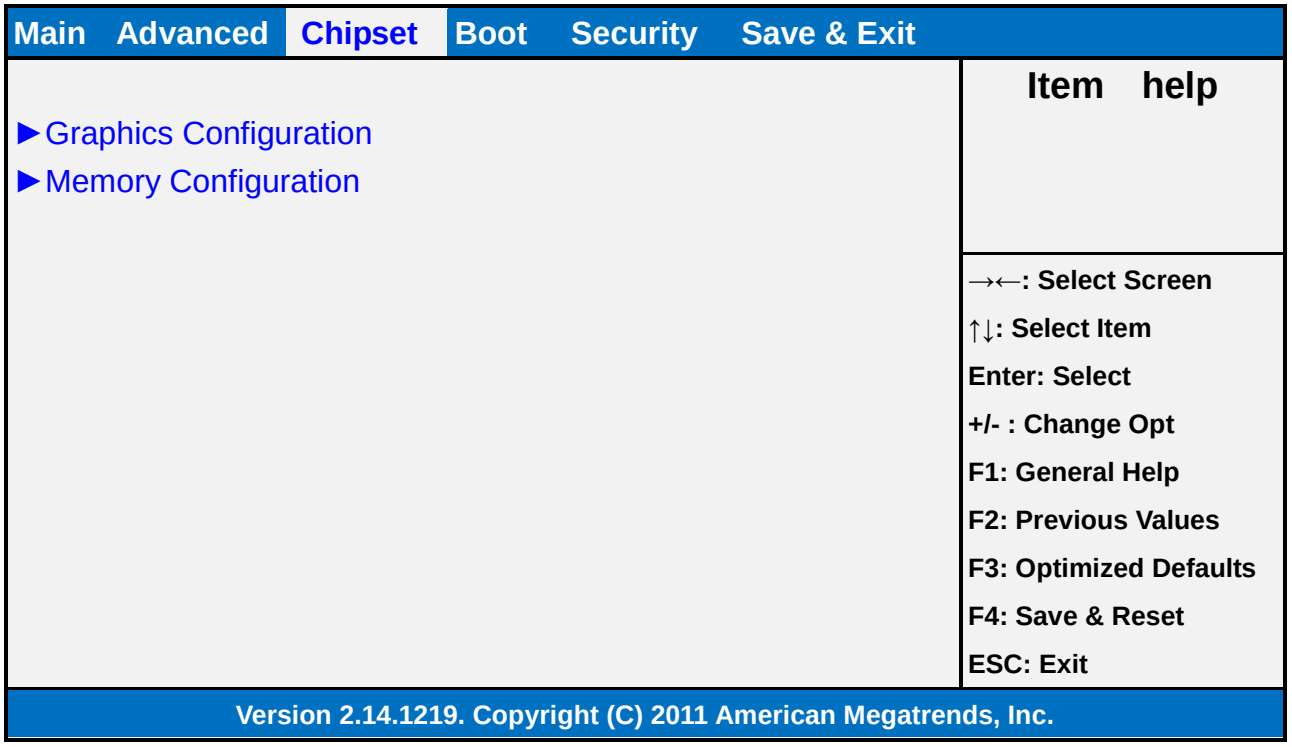
Field Name	**LAN Controller**
Default Value	[Enabled]
Possible Value	Enabled Disabled
Help	Enable or disable onboard NIC.

Field Name	**DeepSx Power Policies**
Default Value	[Disabled]
Possible Value	Disabled Enabled in S4-S5
Help	Configure the DeepSx Mode configuration.

Field Name	**Restore AC Power Loss**
Default Value	[Power Off]
Possible Value	Power Off Power On Last State
Help	Select AC power state when power is re-applied after a power

	failure.

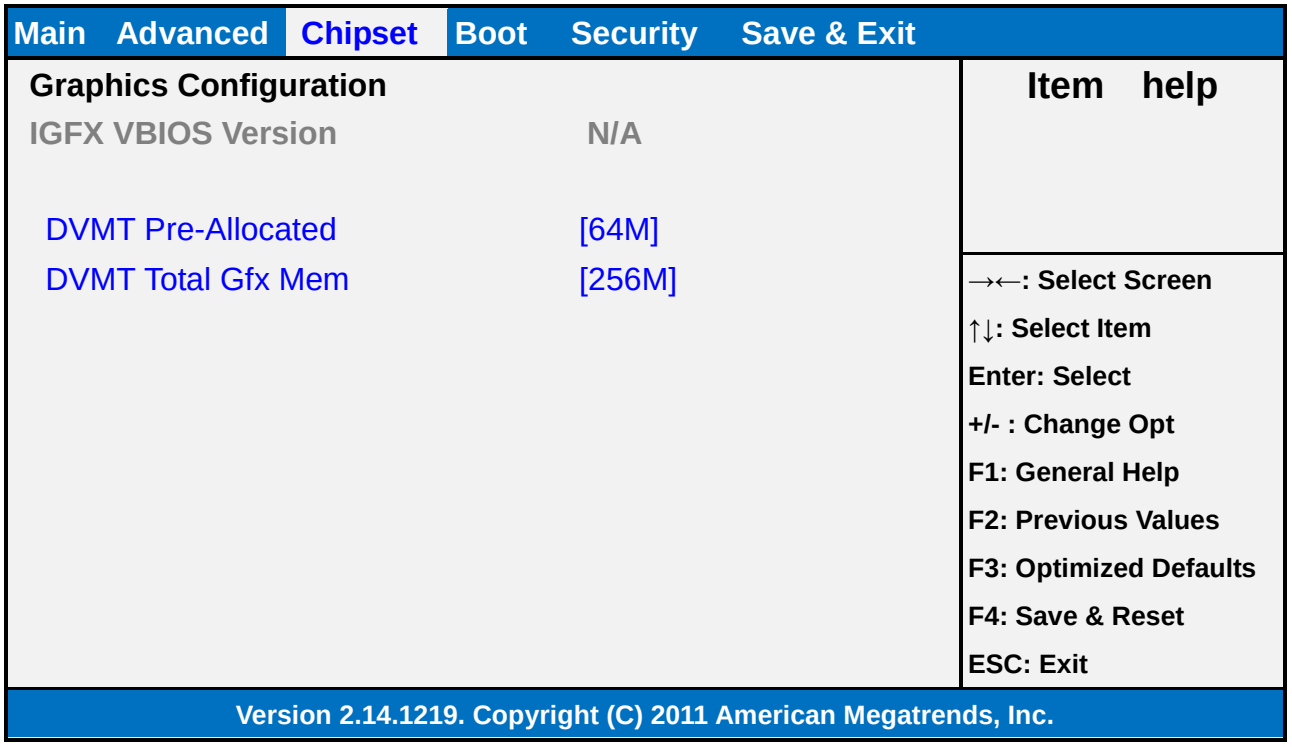
3.2 System Agent (SA) Configuration



Field Name	**Graphics Configuration**
Help	Config Graphics Settings.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	**Memory Configuration**
Help	Memory Configuration Parameters
Comment	Press Enter when selected to go into the associated Sub-Menu.

3.2.1 Graphics Configuration

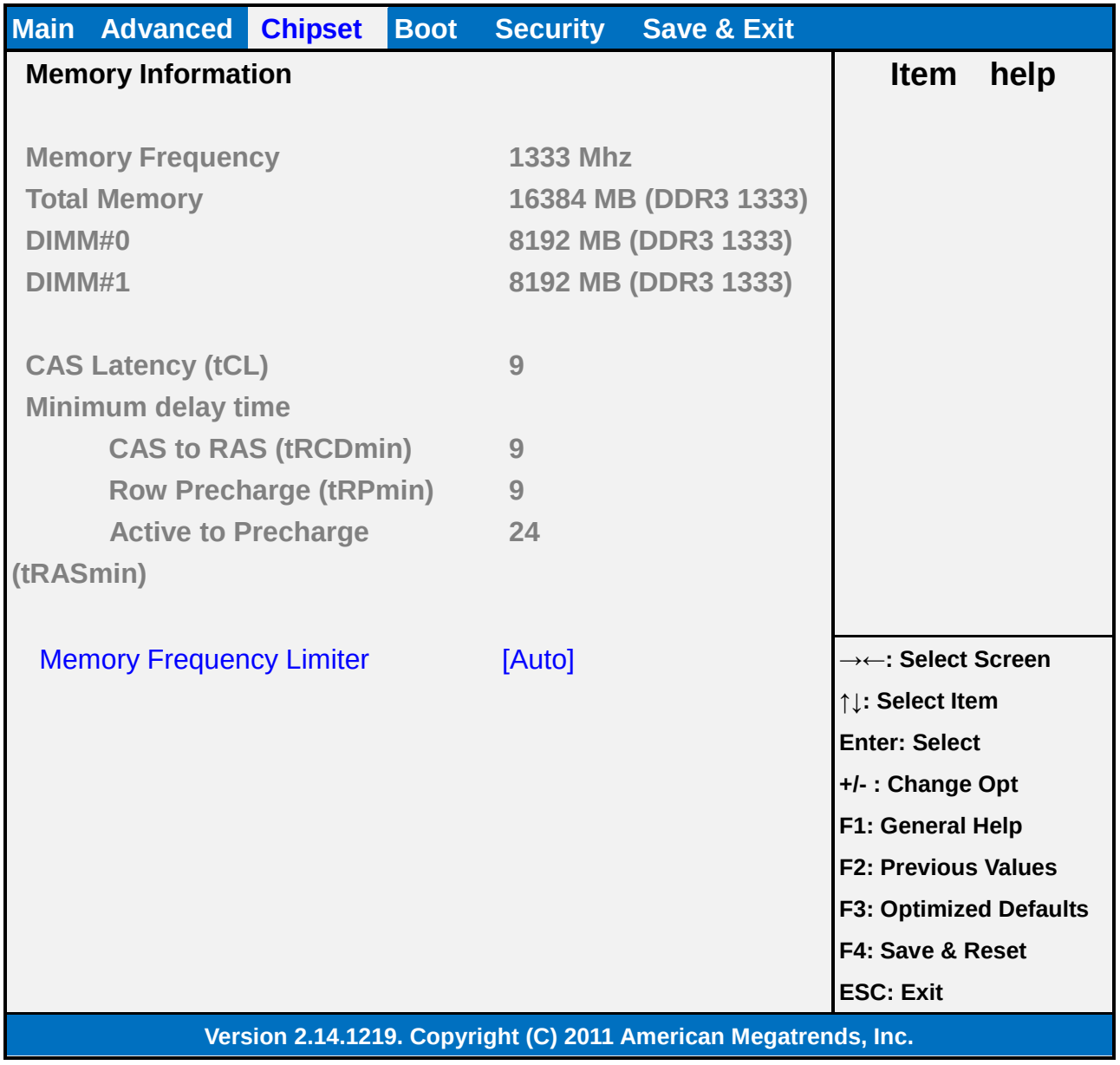


Field Name	**IGFX VBIOS Version**
Default Value	IGFX VBIOS Version (UEFI GOP Mode: NA)
Comment	This field is not selectable. There is no help text associated with it

Field Name	**DVMT Pre-Allocated**
Default Value	[64M]
Possible Value	32M / 64M / 96M / 128M / 160M / 192M / 224M / 256M / 288M / 320M / 352M / 384M / 416M / 448M / 480M / 512M / 1024M
Help	Select DVMT 5.0 Pre-Allocated (Fixed) Graphics Memory size used by the Internal Graphics Device.

Field Name	**4 DVMT Total Gfx Mem**
Default Value	[256M]
Possible Value	128MB / 256MB / MAZ
Help	Select DVMT5.0 Total Graphic Memory size used by the Internal Graphics Device.

3.2.2 Memory Configuration


Main Advanced Chipset Boot Security Save & Exit
Memory Information
Item help
Memory Frequency 1333 Mhz
Total Memory 16384 MB (DDR3 1333)
DIMM#0 8192 MB (DDR3 1333)
DIMM#1 8192 MB (DDR3 1333)
CAS Latency (tCL) 9
Minimum delay time
CAS to RAS (tRCDmin) 9
Row Precharge (tRPmin) 9
Active to Precharge (tRASmin) 24
Memory Frequency Limiter [Auto]
→←: Select Screen
↑↓: Select Item
Enter: Select
+/- : Change Opt
F1: General Help
F2: Previous Values
F3: Optimized Defaults
F4: Save & Reset
ESC: Exit
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Field Name	**Memory Frequency**
Default Value	Show Memory Frequency.
Comment	This field is not selectable. There is no help text associated with it

Field Name	**Total Memory**
Default Value	Total Memory in the System.
Comment	This field is not selectable. There is no help text associated with it

Field Name	**DIMM#0**
Default Value	Memory in the DIMM.
Comment	This field is not selectable. There is no help text associated with it

Field Name	**DIMM#1**
Default Value	Memory in the DIMM.
Comment	This field is not selectable. There is no help text associated with it

Field Name	**CAS Latency (tCL)**
Default Value	tCL value
Comment	This field is not selectable. There is no help text associated with it

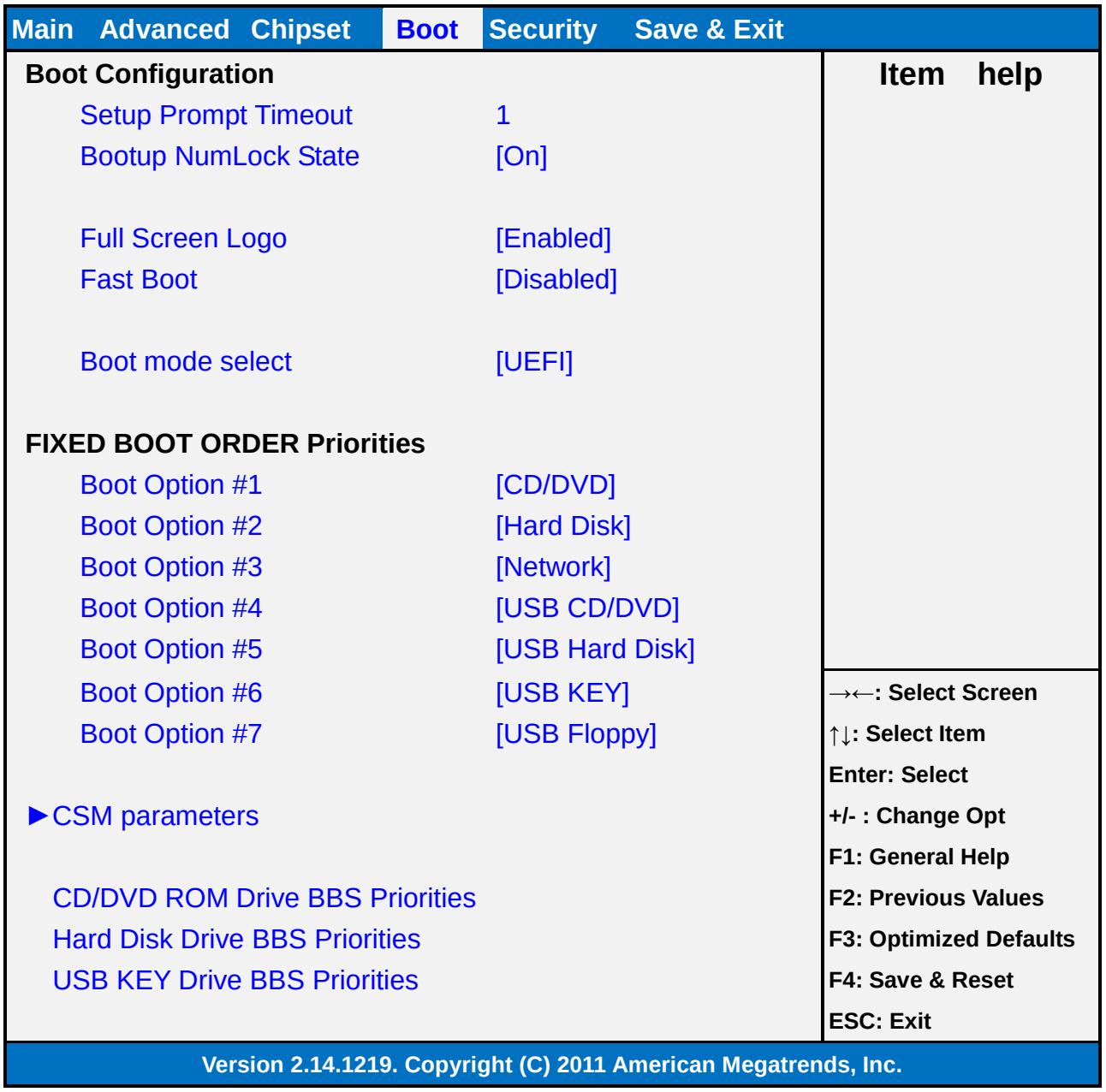
Field Name	**CAS to RAS (tRCDmin)**
Default Value	tRCD value
Comment	This field is not selectable. There is no help text associated with it

Field Name	**Row Precharge (tRPmin)**
Default Value	tRP value
Comment	This field is not selectable. There is no help text associated with it

Field Name	**Active to Precharge (tRASmin)**
Default Value	tRAS value
Comment	This field is not selectable. There is no help text associated with it

Field Name	**Memory Frequency Limiter**
Default Value	[Auto]
Possible Value	Auto / 1067 / 1333 / 1600 / 1867 / 2133 / 2400 /2667
Help	Maximum Memory Frequency Selections in Mhz. The purpose is not for over-clocking but downgrading Memory performance by frequency limiter.

4. Boot


Main Advanced Chipset Boot Security Save & Exit
Boot Configuration
Setup Prompt Timeout 1
Bootup NumLock State [On]
Full Screen Logo [Enabled]
Fast Boot [Disabled]
Boot mode select [UEFI]
FIXED BOOT ORDER Priorities
Boot Option #1 [CD/DVD]
Boot Option #2 [Hard Disk]
Boot Option #3 [Network]
Boot Option #4 [USB CD/DVD]
Boot Option #5 [USB Hard Disk]
Boot Option #6 [USB KEY]
Boot Option #7 [USB Floppy]
►CSM parameters
CD/DVD ROM Drive BBS Priorities
Hard Disk Drive BBS Priorities
USB KEY Drive BBS Priorities
Item help
→←: Select Screen
↑↓: Select Item
Enter: Select
+/- : Change Opt
F1: General Help
F2: Previous Values
F3: Optimized Defaults
F4: Save & Reset
ESC: Exit
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Field Name	**Setup Prompt Timeout**
Default Value	1
Possible Value	1~65535
Help	Number of seconds to wait for setup activation key. 65535(0xFFFF) means indefinite waiting.

Field Name	**Boot NumLock State**
Default Value	[On]
Possible Value	On Off
Help	Select the keyboard NumLock state

Field Name	**Full Screen Logo**
Default Value	[Enabled]
Possible Value	Enabled Disabled
Help	Enables or disables Full Screen Logo option

Field Name	**Fast Boot**
Default Value	[Disabled]
Possible Value	Enabled Disabled
Help	Enables or disables boot with initialization of a minimal set of devices required to launch active boot option. Has no effect for BBS boot options.

Field Name	**Boot mode select**
Default Value	[UEFI]
Possible Value	LEGACY UEFI
Help	Select boot mode LEGACY/UEFI.

Field Name	**Boot Option #1**
Default Value	[CD/DVD]
Possible Value	CD/DVD, Hard Disk, Network, USB CD/DVD, USB Hard Disk, USB KEY, USB Floppy, UEFI
Help	Set boot Priority

Field Name	**Boot Option #2**
Default Value	[Hard Disk]
Possible Value	CD/DVD, Hard Disk, Network, USB CD/DVD, USB Hard Disk, USB KEY, USB Floppy, UEFI
Help	Set boot Priority

Field Name	**Boot Option #3**
Default Value	[Network]
Possible Value	CD/DVD, Hard Disk, Network, USB CD/DVD, USB Hard Disk, USB KEY, USB Floppy, UEFI
Help	Set boot Priority

Field Name	**Boot Option #4**
Default Value	[USB CD/DVD]
Possible Value	CD/DVD, Hard Disk, Network, USB CD/DVD, USB Hard Disk, USB KEY, USB Floppy, UEFI
Help	Set boot Priority

Field Name	**Boot Option #5**
Default Value	[USB Hard Disk]
Possible Value	CD/DVD, Hard Disk, Network, USB CD/DVD, USB Hard Disk, USB KEY, USB Floppy, UEFI
Help	Set boot Priority

Field Name	**Boot Option #6**
Default Value	[USB KEY]
Possible Value	CD/DVD, Hard Disk, Network, USB CD/DVD, USB Hard Disk, USB KEY, USB Floppy, UEFI
Help	Set boot Priority

Field Name	**Boot Option #7 (UEFI Boot Mode Not Support)**
Default Value	[USB Floppy]
Possible Value	CD/DVD, Hard Disk, Network, USB CD/DVD, USB Hard Disk, USB KEY, USB Floppy, UEFI

Help	Set boot Priority

Field Name	**CSM parameters**
Help	OpROM execution, boot options filter, etc.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	**CD/DVD ROM Drive BBS Priorities**
Help	Specifies the Boot Device Priority sequence from available CDROM/DVD Drives.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	**Hard Disk Drive BBS Priorities**
Help	Specifies the Boot Device Priority sequence from available Hard Disk Drives.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	**NETWORK Drive BBS Priorities**
Help	Specifies the Boot Device Priority sequence from available NETWORK Drives.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	**USB CD/DVD ROM Drive BBS Priorities**
Help	Specifies the Boot Device Priority sequence from available USB CDROM/DVD Drives.
Comment	Press Enter when selected to go into the associated Sub-Menu.

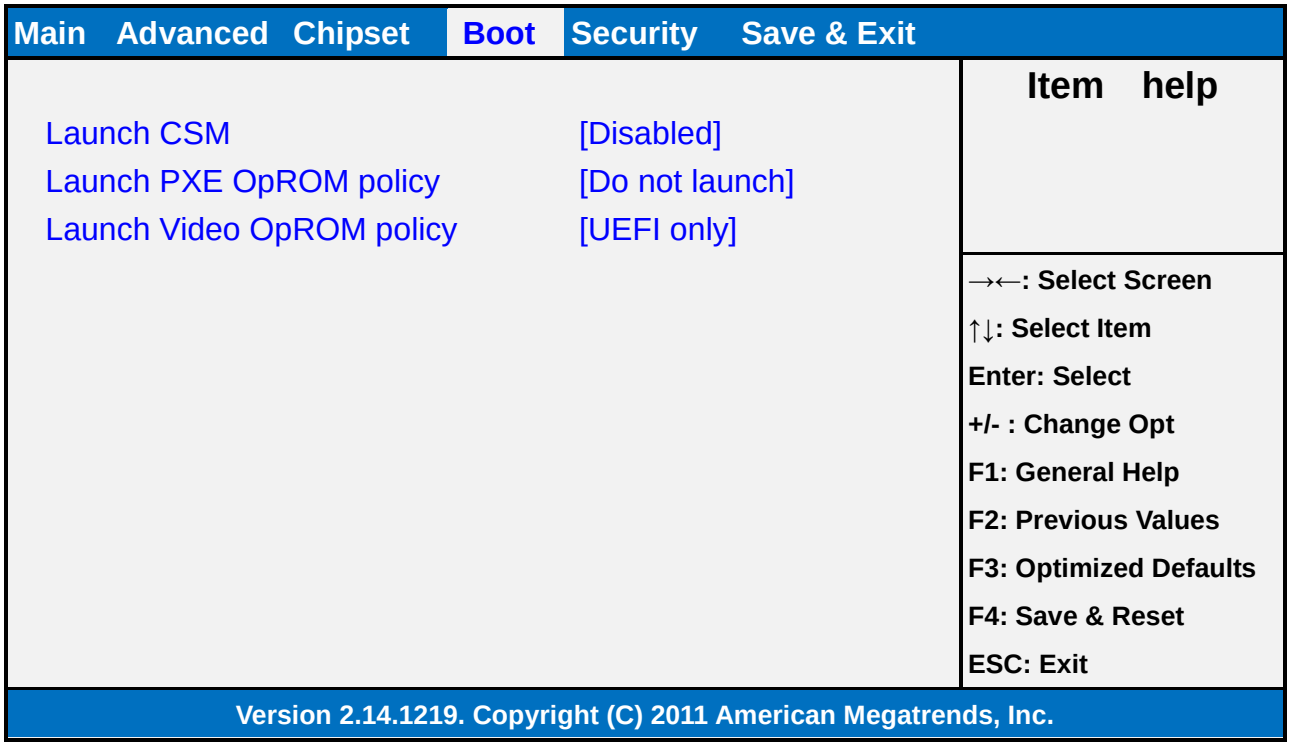
Field Name	**USB Hard Disk Drive BBS Priorities**
Help	Specifies the Boot Device Priority sequence from available USB Hard Disk Drives.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	**USB KEY Drive BBS Priorities**
Help	Specifies the Boot Device Priority sequence from available USB

	Key Drives.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	**USB Floppy Drive BBS Priorities** **(UEFI Boot Mode Not Support)**
Help	Specifies the Boot Device Priority sequence from available USB Floppy Drives.
Comment	Press Enter when selected to go into the associated Sub-Menu.

4.1 CSM parameters


Main Advanced Chipset Boot Security Save & Exit
Launch CSM [Disabled]
Launch PXE OpROM policy [Do not launch]
Launch Video OpROM policy [UEFI only]
Item help
→←: Select Screen
↑↓: Select Item
Enter: Select
+/- : Change Opt
F1: General Help
F2: Previous Values
F3: Optimized Defaults
F4: Save & Reset
ESC: Exit
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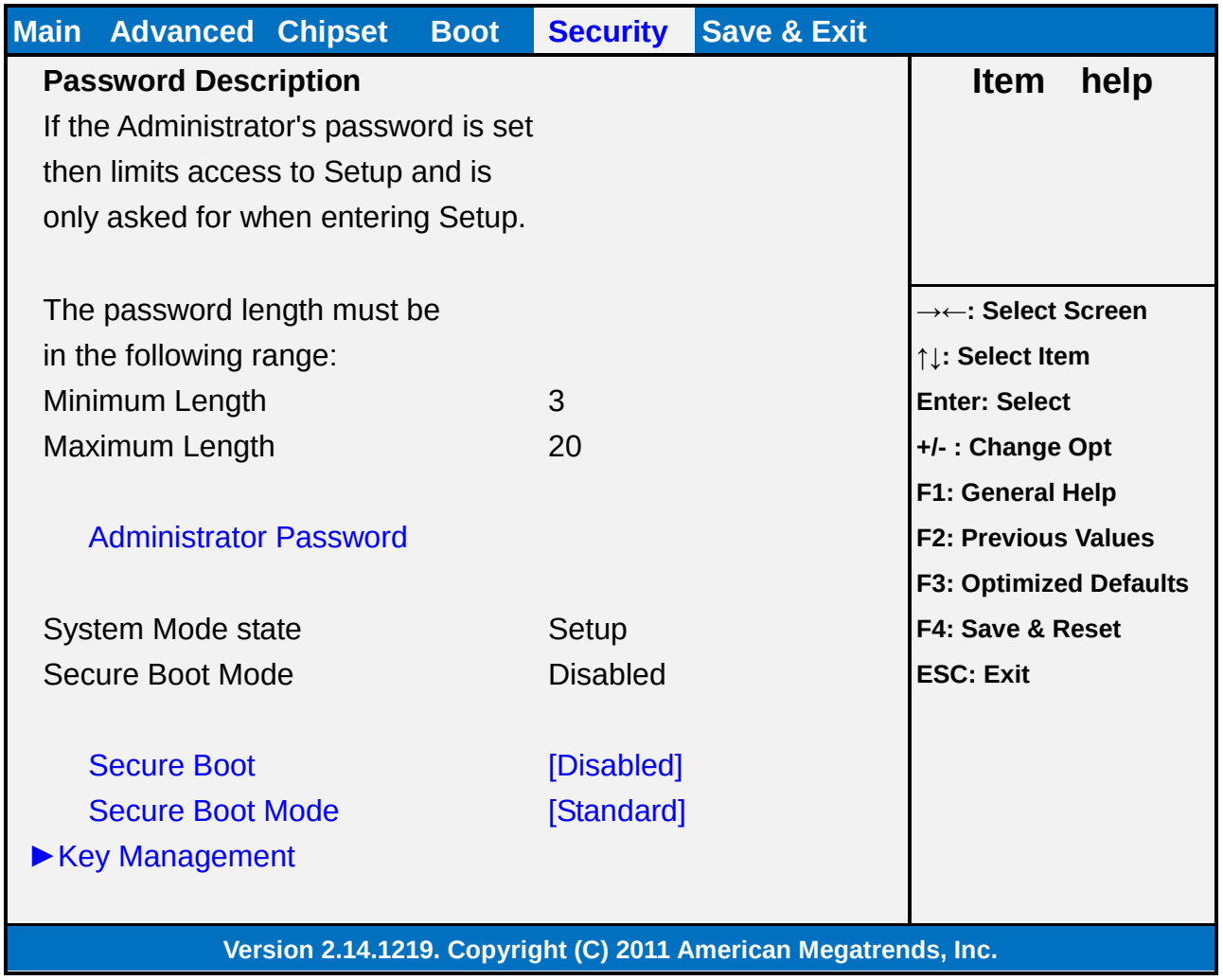
Field Name	**Launch CSM**
Default Value	[Disabled]
Possible Value	Enabled Disabled
Help	This option controls if CSM will be launched.

Field Name	**Launch PXE OpROM policy**
Default Value	[Do not launch]
Possible Value	Do not launch UEFI only Legacy only
Help	Controls the execution of UEFI and Legacy PXE OpROM.

Field Name	**Launch Video OpROM policy**
Default Value	[UEFI only]
Possible Value	UEFI only Legacy only
Help	Controls the execution of UEFI and Legacy Video OpROM.

5 Security


Main Advanced Chipset Boot Security Save & Exit
Password Description
If the Administrator's password is set then limits access to Setup and is only asked for when entering Setup.
The password length must be in the following range:
Minimum Length 3
Maximum Length 20
Administrator Password
System Mode state Setup
Secure Boot Mode Disabled
Secure Boot [Disabled]
Secure Boot Mode [Standard]
►Key Management
Item help
→←: Select Screen
↑↓: Select Item
Enter: Select
+/- : Change Opt
F1: General Help
F2: Previous Values
F3: Optimized Defaults
F4: Save & Reset
ESC: Exit
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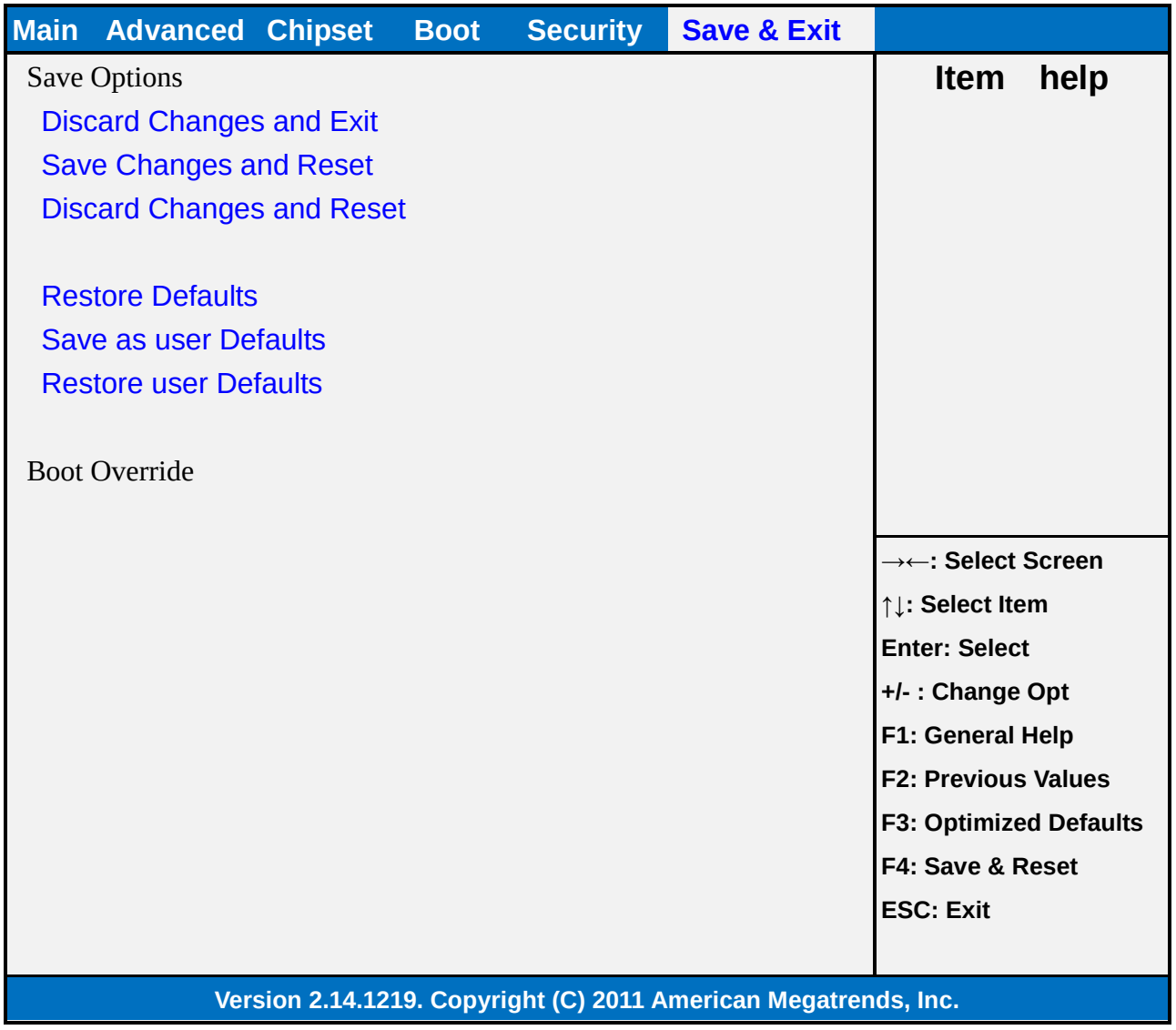
Field Name	**Administrator Password**
Help	Set Setup Administrator Password
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	**Secure Boot**
Default Value	[Enabled]
Possible Value	Enabled Disabled
Help	Secure Boot flow control. Secure Boot is possible only if System runs in User Mode.

Field Name	**Secure Boot Mode**
Default Value	[Standard]
Possible Value	Standard Custom
Help	Secure Boot mode selector. 'Standard' - fixed Secure boot policy, 'Custom' - changeable Image Execution policy and Secure Boot Key databases.

Field Name	**Key Management**
Help	Key Management Page, allows for manual modification of the content of the Secure Boot variables.
Comment	Press Enter when selected to go into the associated Sub-Menu.

6 Save & Exit



Field Name	**Discard Changes and Exit**
Help	Exit system setup without saving any changes.
Comment	

Field Name	**Save Changes and Reset**
Help	Reset the system after saving the changes.
Comment	

Field Name	**Discard Changes and Reset**

Help	Reset system setup without saving any changes.
Comment	

Field Name	**Restore Defaults**
Help	Restore/Load Default values for all the setup options.
Comment	

Field Name	**Save as user Defaults**
Help	Save the changes done so far as User Defaults.
Comment	

Field Name	**Restore user Defaults**
Help	Restore the User Defaults to all the setup options.
Comment	